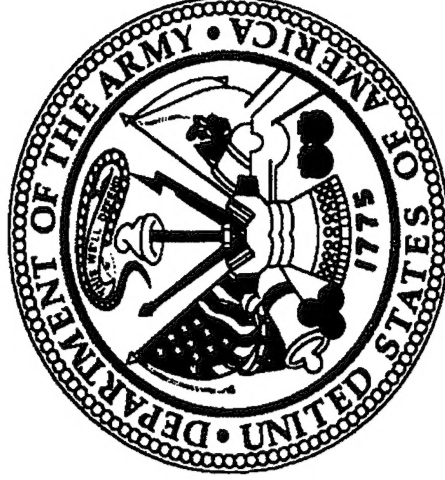


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DEPARTMENT OF THE ARMY

Procurement Programs



COMMITTEE STAFF STATEMENT A
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FY 1998 / FY 1999 Budget Estimate

19970304 021

**OTHER PROCUREMENT, ARMY
ACTIVITY 2, COMMUNICATIONS AND ELECTRONICS**

APPROPRIATION

February 1997

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26	SAT TERM, EMUT	K47800	59894123.98P	39
27	NAVSTAR GLOBAL POSITIONING SYSTEM (SPACE)	BC4001	59909123.98P	45
28	GROUND COMMAND POST	BC4002	59910123.98P	50
29	SMART-T (SPACE)	BC4003	59911123.98P	52
30	SCAMP (SPACE)	BC4120	59915123.98P	60
31	GLOBAL BRDCST SVC - GBS	BB8417	59920123.98P	66
32	MOD OF IN-SVC EQUIP (TAC SAT)	BB1611	51666123.98P	71
33	MSE MOD IN SERVICE	BA8200	56988148.98P	77
34	COMMAND CENTER IMPROVEMENT PROG (CCIP)	BU4000	57858148.98P	83
35	SOUTHCAM HQ RELOCATION	BA8250	58148123.98P	86
36	ARMY GLOBAL CMD & CONTROL SYS (AGCCS)	BU1400	56316123.98P	90
37	ARMY DATA DISTRIBUTION SYSTEM (ADDS)	BB1610	57580123.98P	93
38	MOBILE SUBSCRIBER EQUIP (MSE)	BW0006	57638123.98P	100
39	SINGGARS FAMILY	BA1010	58266123.98P	103
40	JOINT TACTICAL AREA COMMS SYS	BB1600	58324123.98P	120
41	ACUS MOD PROGRAM (WIN-T/T)	BA1205	58400123.98P	125
42	TAC RADIO	BA5210	58548112.98P	131
43	C-E CONTINGENCY/FIELDING EQUIP	BA5300	58560131.98P	136
44	SOLDIER ENHANCEMENT PROG COM/ELEC	B03200	58960123.98P	138
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47	JWICS CONNECTIVITY	BK5284	50250142.98P	152
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53	ARMY DISN ROUTER	BU0300	59782148.98P	187
54	ELECTROMAG COMP PROG (EMCP)	BD3100	59786135.98P	190
55	WW TECH CON IMP PROG (WWTCIP)	BU3610	59850148.98P	193
56	INFORMATION SYSTEMS	BB8650	59200148.98P	196
57	DEFENSE MESSAGE SYSTEM (DMS)	BU3770	59632118.98P	211
58	LOCAL AREA NETWORK (LAN)	BU4165	59704148.98P	214
59	PENTAGON INFORMATION MGT AND TELECOM	BQ0100	59846148.98P	218
60	FOREIGN COUNTERINTELLIGENCE PROG (FCI)	BK5282	59398142.98P	224
61	GENERAL DEFENSE INTELL PROG (GDIP)	BD3900	59816142.98P	225
62	ITEMS LESS THAN \$2.0M (INTEL SPT) - TIARA	BL5278	59996106.98P	226
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64	JTT / CIBS-M (TIARA)	V29600	59522103.98P	230
65	IEW - GND BASE COMMON SENSORS (TIARA)	BZ7326	59544103.98P	237
66	JOINT STARS (ARMY) (TIARA)	BA1080	59574103.98P	244
67	NATO-AGS	BA1082	59577103.98P	251
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71	TACTICAL EXPLOITATION OF NATIONAL CAPABILITIES	BZ7315	59678102.98P	269
72	JOINT TACTICAL GROUND STATION	BZ8410	59691121.98P	272
73	JOINT TACTICAL GROUND STATION MODS	BZ8420	59695121.98P	276
74	TROJAN (TIARA)	BA0326	59704104.98P	288
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76	ITEMS LESS THAN \$2.0M (TIARA)	BK5278	59990106.98P	309
77	SHORTSTOP	VA8000	58490103.98P	310
78	COUNTERINTELLIGENCE/SECURITY COUNTERMEASURES	BL5283	59996142.98P	316

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82	MOD OF IN-SVC EQUIP (TAC SURV)	BZ7325	50224103.98P	352
83	COMPUTER BALLISTICS: MORTAR XM-23	K99200	55726119.98P	369
84	INTEGRATED MET SYS SENSORS (IMETS) - TIARA	BW0021	58690123.98P	374
85	SHF TERM	BA9350	59450123.98P	377
86	ADV FIELD ARTILLERY TACT DATA SYS (AFATDS)	B28600	59050123.98P	382
87	FIRE SUPPORT ADA CONVERSION	B78400	59100123.98P	385
88	CMBT SVC SUPT CONTROL SYS (CSSCS)	W34600	59142123.98P	388
89	FAAD C2	AD5050	59262123.98P	392
90	FORWARD ENTRY DEVICE (FED)	BZ9851	59322123.98P	395
91	LIFE CYCLE SOFTWARE SUPPORT (LCSS)	BD3955	59442126.98P	398
92	LOGTECH	BZ8889	59502118.98P	402
93	TC AIMS II	BZ8900	59510118.98P	405
94	ISYSCON EQUIPMENT	BX0007	59672123.98P	408
95	MANEUVER CONTROL SYSTEM (MCS)	BA9320	59742123.98P	415
96	STAMIS TACTICAL COMPUTERS (STACOMP)	W00800	59922118.98P	419
97	STANDARD INTEGRATED CMD POST SYSTEM	BZ9962	59962123.98P	424
98	ARMY TRAINING XX1 MODERNIZATION	BE4169	53001500.98P	434
99	AUTOMATED DATA PROCESSING EQUIP	BD3000	53002150.98P	458
100	RESERVE COMPONENT AUTOMATION SYS (RCAS)	BE4167	59956108.98P	519
101	AFRTS	BZ8480	59762150.98P	522
102	ITEMS LESS THAN \$2.0M (A/V)	BK5289	59988150.98P	525
103	CALIBRATION SETS EQUIPMENT	BZ5269	50180143.98P	528
104	INTEGRATED FAMILY OF TEST EQUIP (IFTE)	KA4000	50340143.98P	538
105	TMDE MODERNIZATION (TMOD)	BZ5270	50660143.98P	555
107	PRODUCTION BASE SUPPORT (C-E)	BF5400	52716144.98P	560

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Appropriation: **OTHER PROCUREMENT, ARMY**

Activity: 2. **COMMUNICATIONS AND ELECTRONICS**

LINE NO.	ITEM NOMENCLATURE	ID	(DOLS) FY 98 UNIT COST	(THOUSANDS OF DOLLARS)									
				FY 96		FY 97		FY 98		FY 99			
				QTY (5)	COST (6)	QTY (7)	COST (8)	QTY (9)	COST (10)	QTY (11)	COST (12)		
(1)	(2)	(3)	(4)										
COMM - JOINT COMMUNICATIONS													
23	JCSE EQUIPMENT (USREDCOM) (BB5777)				2,200		2,856		3,075				3,219
	SUB-ACTIVITY TOTAL				2,200		2,856		3,075				3,219
COMM - SATELLITE COMMUNICATIONS													
24	DEFENSE SATELLITE COMMUNICATIONS SYSTEM (SPACE) (BB8500)				74,311		97,406		87,643				101,727
25	SAT TERM, EMUT (SPACE) (K77200)		35,091	666	16,952	620	18,609	207	7,264				1,840
26	NAVSTAR GLOBAL POSITIONING SYSTEM (SPACE) (K47800)	B	399,764	2,112	49,040	12,017	26,255	17	6,796	14			7,018
27	GROUND COMMAND POST (BC4001)				756		710		589				
28	SMART-T (SPACE) (BC4002)				51,429		34,670		22,762				61,019
29	SCAMP (SPACE) (BC4003)				20,057		14,425		4,305				4,813
30	GLOBAL BRDCST SVC - GBS (BC4120)								4,967				
31	MOD OF IN-SVC EQUIP (TAC SAT) (BB8417)				9,535		5,437		2,021				2,035
	SUB-ACTIVITY TOTAL				222,080		197,512		136,347				178,452
COMM - COMBAT SUPPORT COMM													
32	MSE MOD IN SERVICE (BB1611)				16,997		9,836						
	SUB-ACTIVITY TOTAL				16,997		9,836						

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LINE NO.	ITEM NOMENCLATURE	ID	(DOLS) FY 98 UNIT COST	(THOUSANDS OF DOLLARS)									
				FY 96		FY 97		FY 98		FY 99			
				QTY (5)	COST (6)	QTY (7)	COST (8)	QTY (9)	COST (10)	QTY (11)	COST (12)		
(1)	(2)	(3)	(4)										
	**COMM - C3 SYSTEM												
33	COMMAND CENTER IMPROVEMENT PROG (CCIP) (BA8200)			891			891						
34	SOUTHCOM HQ RELOCATION (BU4000)			17,400			26,950						
35	ARMY GLOBAL CMD & CONTROL SYS (AGCCS) (BA8250)	A		15,254			20,437		17,315		23,772		
	SUB-ACTIVITY TOTAL			----- 33,545			48,278		----- 17,315		----- 23,772		
	COMM - COMBAT COMMUNICATIONS												
36	ARMY DATA DISTRIBUTION SYSTEM (ADDS) (BU1400)	B		44,563			67,927		57,165		55,676		
37	MOBILE SUBSCRIBER EQUIP (MSE) (BB1610)	A		3,368			6,390						
38	SINGGARS FAMILY (BW0006)	A		357,153			319,630		290,164		13,507		
39	JOINT TACTICAL AREA COMM SYS (BA1010)	A		44,317			44,084		10,684		10,147		
40	ACUS MOD PROGRAM (WIN-T/T) (BB1600)	A		11,273			10,028		82,391		74,812		
41	TAC RADIO (BA1205)			423	24,028	1,000	35,699						
42	C-E CONTINGENCY/FIELDING EQUIP (BA5210)			4,928			576		2,023		2,214		
43	SOLDIER ENHANCEMENT PROGRAM COMM / ELECTRONICS (BA5300)								1,003		7,496		

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LINE NO.	ITEM NOMENCLATURE	ID	(DOLS) FY 98 UNIT COST	(THOUSANDS OF DOLLARS)									
				FY 96		FY 97		FY 98		FY 99			
				QTY (5)	COST (6)	QTY (7)	COST (8)	QTY (9)	COST (10)	QTY (11)	COST (12)		
(1)	(2)	(3)	(4)										
44	COMBAT SURVIVOR EVADER LOCATOR (CSEL) (B03200)	B								5,677			14,019
45	MEDICAL COMMUNICATIONS FOR CBT CASUALTY CARE (MA8046)												9,651
	SUB-ACTIVITY TOTAL				489,630		484,334		449,107				187,522
	COMM - INTELLIGENCE COMM												
46	JWICS CONNECTIVITY (BD3400)	A					665						
47	CI AUTOMATION ARCHITECTURE (BK5284)	A					2,449		2,297				2,298
48	CI CONUS BASED LAN (BK5287)	A					724						
	SUB-ACTIVITY TOTAL						3,838		2,297				2,298
	COMM - INFORMATION SECURITY												
49	TSEC - ARMY KEY MGT SYS (AKMS) (BA1201)									4,714			10,315
50	INFORMATION SYSTEM SECURITY PROGRAM - ISSP (TA0600)	A			10,647		19,983		10,208				14,978
	SUB-ACTIVITY TOTAL				10,647		19,983		14,922				25,293
	COMM - LONG HAUL COMMUNICATIONS												
51	TERRESTRIAL TRANSMISSION (BU1900)				11,100		6,724		20,811				1,229
52	BASE SUPPORT COMMUNICATIONS (BU4160)				3,365		1,068		1,053				1,149

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LINE NO.	ITEM NOMENCLATURE	ID	(DOLS) FY 98 UNIT COST	(THOUSANDS OF DOLLARS)									
				FY 96		FY 97		FY 98		FY 99			
				QTY (5)	COST (6)	QTY (7)	COST (8)	QTY (9)	COST (10)	QTY (11)	COST (12)		
(1)	(2)	(3)	(4)										
53	ARMY DISN ROUTER (BU0300)				5,606		2,074		2,991				2,138
54	ELECTROMAG COMP PROG (EMCP) (BD3100)				212		472		469				462
55	WW TECH CON IMP PROG (WWTCIP) (BU3610)				6,539		806		944				933
	SUB-ACTIVITY TOTAL				26,822		11,144		26,268				5,911
	COMM - BASE COMMUNICATIONS												
56	INFORMATION SYSTEMS (BB8650)				66,988		48,837		20,498				23,590
57	DEFENSE MESSAGE SYSTEM (DMS) (BU3770)				7,729		5,785		7,962				8,097
58	LOCAL AREA NETWORK (LAN) (BU4165)				45,205		17,704		17,576				14,713
59	PENTAGON INFORMATION MGT AND TELECOM (BQ0100)				2,225		59,826		28,249				40,071
	SUB-ACTIVITY TOTAL				122,147		132,152		74,285				86,471
	**ELECT EQUIP - NAT FOR INT PROG (NFIP)												
60	FOREIGN COUNTERINTELLIGENCE PROG (FCI) (BK5282)				536		2,085		3,897				897
61	GENERAL DEFENSE INTELL PROG (GDIP) (BD3900)				24,449		22,833		18,856				21,068

Activity: 2. **COMMUNICATIONS AND ELECTRONICS**

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LINE NO.	ITEM NOMENCLATURE	ID	(DOLS) FY 98 UNIT COST	(THOUSANDS OF DOLLARS)									
				FY 96		FY 97		FY 98		FY 99			
				QTY (5)	COST (6)	QTY (7)	COST (8)	QTY (9)	COST (10)	QTY (11)	COST (12)		
(1)	(2)	(3)	(4)										
73	JOINT TACTICAL GROUND STATION MODS (BZ8420)										2,913		2,697
74	TROJAN (TIARA) (BA0326)	B			18,512		4,199				3,828		4,126
75	MOD OF IN-SVC EQUIP (INTEL SPT) (TIARA) (BZ9750)				18,882		14,433				1,676		
76	ITEMS LESS THAN \$2.0M (TIARA) (BK5278)				500		515				526		542
	SUB-ACTIVITY TOTAL				248,535		194,308				212,434		214,413
	ELECT EQUIP - ELECTRONIC WARFARE (EW)												
77	SHORTSTOP (VA8000)						5,000						
78	COUNTERINTELLIGENCE/SECURITY COUNTERMEASURES (BL5283)				2,501		1,640				2,325		1,710
	SUB-ACTIVITY TOTAL				2,501		6,640				2,325		1,710
	ELECT EQUIP - TACTICAL SURV. (TAC SURV)												
79	SENTINEL (WK5053)		3,417,833	24	61,882	28	68,783	12			41,014	15	40,071
80	NIGHT VISION DEVICES (KA3500)	A		750	83,726	1,064	164,862				85,312		83,805
81	ARTILLERY ACCURACY EQUIP (AD3200)				11,681		4,649				4,548		4,502
82	MOD OF IN-SVC EQUIP (TAC SURV) (BZ7325)	B			26,022		15,095				1,223		4,943
83	COMPUTER BALLISTICS: MORTAR XM-23 (K99200)	A		210	4,827	232	6,841						

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LINE NO.	ITEM NOMENCLATURE	ID	(DOLS) FY 98 UNIT COST	(THOUSANDS OF DOLLARS)											
				FY 96			FY 97			FY 98			FY 99		
				QTY	COST	(6)	QTY	COST	(8)	QTY	COST	(10)	QTY	COST	(12)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
84	INTEGRATED MET SYS SENSORS (IMETS) - TIARA (BW0021)		689,500	12	7,463	6	3,140	2	1,379						
85	SHF TERM (BA9350)						9,123		14,328						31,206
	SUB-ACTIVITY TOTAL				195,601		272,493		147,804						164,527
	ELECT EQUIP - TACTICAL C2 SYSTEMS														
86	ADV FIELD ARTILLERY TACT DATA SYS (AFATDS) (B28600)	B	131,403	246	31,730	196	31,530	253	33,245	191	37,491				
87	FIRE SUPPORT ADA CONVERSION (B78400)	A					87		3,306						
88	CMBT SVC SUPT CONTROL SYS (CSCSS) (W34600)		115,180	38	4,547	51	5,806	50	5,759	56	5,740				
89	FAAD C2 (AD5050)	A	4,360,000	4	42,880	4	36,715	3	13,080	1	8,262				
90	FORWARD ENTRY DEVICE (FED) (BZ9851)	B					12,031		2,382						
91	LIFE CYCLE SOFTWARE SUPPORT (LCSS) (BD3955)				2,014		2,027		1,978						1,224
92	LOGTECH (BZ8889)	B			5,033		7,995		3,358						3,311
93	TC AIMS II (BZ8900)								2,197						535
94	ISYSCON EQUIPMENT (BX0007)				12,766		9,821		10,645						10,539
95	MANEUVER CONTROL SYSTEM (MCS) (BA9320)	A	108,268	123	18,571	143	19,102	145	15,699	157	18,324				

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LINE NO.	ITEM NOMENCLATURE	ID	(DOLS) FY 98 UNIT COST	(THOUSANDS OF DOLLARS)									
				FY 96		FY 97		FY 98		FY 99			
				QTY (5)	COST (6)	QTY (7)	COST (8)	QTY (9)	COST (10)	QTY (11)	COST (12)		
(1)	(2)	(3)	(4)										
96	STAMIS TACTICAL COMPUTERS (STACOMP) (W00800)	A	22,367	1,830	30,833		39,966	1,615	36,124	1,633	29,413		
97	STANDARD INTEGRATED CMD POST SYSTEM (BZ9962)				28,461		29,967		26,551		22,807		
	SUB-ACTIVITY TOTAL				176,835		195,047		154,324		137,646		
	ELECT EQUIP - AUTOMATION												
98	ARMY TRAINING XX1 MODERNIZATION (BE4169)								25,238		40,065		
99	AUTOMATED DATA PROCESSING EQUIP (BD3000)				112,383		136,215		125,099		120,484		
100	RESERVE COMPONENT AUTOMATION SYS (RCAS) (BE4167)				80,764		72,498		114,323		110,612		
	SUB-ACTIVITY TOTAL				193,147		208,713		264,660		271,161		
	ELECT EQUIP - AUDIO VISUAL SYSTEMS (AV)												
101	AFRTS (BZ8480)				446		359		459		502		
102	ITEMS LESS THAN \$2.0M (A/V) (BK5289)				4,104		2,112		2,624		5,700		
	SUB-ACTIVITY TOTAL				4,550		2,471		3,083		6,202		
	ELECT EQUIP - TEST MEAS & DIAG EQUIP (TMDE)												
103	CALIBRATION SETS EQUIPMENT (BZ5269)	A			10,948		11,090						

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February 1997

Appropriation: **OTHER PROCUREMENT, ARMY**

Activity: 2. **COMMUNICATIONS AND ELECTRONICS**

LINE NO.	ITEM NOMENCLATURE	ID	(DOLS) FY 98 UNIT COST	(THOUSANDS OF DOLLARS)					
				FY 96		FY 97		FY 98	
				QTY	COST	QTY	COST	QTY	COST
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
104	INTEGRATED FAMILY OF TEST EQUIP (IFTE) (KA4000)	B			41,323		21,484		
105	TMDE MODERNIZATION (TMOD) (BZ5270)	A			9,173		8,229		
	SUB-ACTIVITY TOTAL				61,444		40,803		
	ELECT EQUIP - SUPPORT								
106	INSTALLATION C4 UPGRADE (ICU) (BB1000)				1,692		1,110		
107	PRODUCTION BASE SUPPORT (C-E) (BF5400)				952		686		412
	SUB-ACTIVITY TOTAL				2,644		1,796		412
	ACTIVITY TOTAL				1,836,556		1,866,170		1,531,417
									1,330,974

BUDGET ITEM JUSTIFICATION SHEET										DATE
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE								
OTHER PROCUREMENT / Communications and Electronics Equipment		JCSE EQUIPMENT (USREDCOM) (BB5777)								
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		
QUANTITY										
COST (in millions)	2.2	2.9	3.1	3.2	5.4	4.9	6.0	6.2		
<p>DESCRIPTION:</p> <p>Provides Joint Staff directed Army share of funds to equip the Joint Communications Support Element (JCSE). The JCSE is a unique, completely mobile, multi-service communications unit which provides support to the Unified and Specified Commands at the direction of the Joint Staff. The JCSE has the capability to deploy to any location and provide simultaneous communications support to two Joint Task Force (JTF) Headquarters and two Joint Special Operations Task Force (JSOTF) Headquarters involved in worldwide contingency operations or disaster relief/evacuation activities. JCSE also augments or provides contingency emergency communications support to meet the critical operational needs of the Joint Staff, the Services, defense and/or civil agencies, etc. and on a non-interference basis, provides communications support for joint readiness exercises. Equipment to be procured includes wideband microwave radio systems, packet switching nodes, line termination modules for Echelons Above Corps switches, Demand Assigned Multiple Access satellite radios, MILSTAR radios and automatic data processing equipment.</p> <p>JUSTIFICATION:</p> <p>FY 98 funds will procure 1 ea and a portion of a second STAR-T Tri-band Satellite Communications Terminal with integrated Switch Multiplex Unit (SMU). FY 99 funding will acquire 1 ea and a portion of a second STAR-T with integrated SMU. These systems are part of a five year Army led program to replace the current fleet of Ground Mobile Forces TACSAT terminals. The Joint Communications Support Element requires STAR-T's to support the contingency communications requirements of the warfighting CINC's as tasked by the Joint Staff.</p>										

BUDGET ITEM JUSTIFICATION SHEET										DATE
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE								
OTHER PROCUREMENT 2 / Communications and Electronics Equipment		DEFENSE SATELLITE COMMUNICATIONS SYSTEM (BB8500)								
		FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	
QUANTITY										
COST (in millions)	74.3	97.4	87.6	101.7	70.8	71.4	59.9	58.4		
<p>DESCRIPTION: The Defense Satellite Communications System (DSCS) provides super high frequency (SHF) wideband and anti-jam (AJ) satellite communications supporting critical national strategic and tactical C3I requirements. It must be survivable during trans- and post- nuclear attack to support communications essential to national survival. The DSCS supports the Army warfighter as well as the unique and vital Department of Defense (DOD) and non-DOD users, as approved by the Joint Staff and/or Secretary of Defense (SECDEF). The DSCS is used in conjunction with the Terrestrial Transmissions of the Defense Information System Network (DISN) and other communications systems to provide end-to-end communications. The DSCS provides long-haul service between the Continental United States (CONUS) and overseas locations.</p> <p>JUSTIFICATION: Funds are required to support various requirements as directed by the National Command Authorities (NCA), Commanders in Chief (CINCs), White House Communications Agency (WHCA), Navy C2, NATO, UK, and Diplomatic Telecommunications Service (DTS). FY 98 funds for the Jam Resistant Secure Communications (JRSC) provides for the acquisition of the Universal Modem System (UMS).</p> <p>FY98 Mod of In-Service Equipment funds provide installation and fielding of the Heavy Terminal (HT), Medium Terminal (MT), and Light Terminal (LT) modification work order (MWO) kits and for AN/GSC-52 installation kits. FY98 DSCS Operations Control System (DOCS) funds procure Replacement Satellite Configuration Control Element (RSCCE) Option 2 quantities, DSCS Spectrum Management System (DSMS) initial quantities, and Operational Database Software. FY98 Digital Equipment funds provide for fabrication of racks and components and their integration into DSCS. FY98 Interconnect Facility (ICF) funds support Defense Information Systems Agency (DISA) and Joint Chiefs of Staff (JCS) directed satellite ground terminal relocations supporting the realignment of U.S. forces worldwide. In addition, FY98 funds annualized engineering, matrix, and fielding support for current and prior year DSCS procurements.</p> <p>FY99 JRSC funds will provide for the continued acquisition of the UMS. FY99 Mod of In-Service equipment funds provide for continued installation and fielding of the HT/MT/LT MWO kits and AN/GSC-52 installation kits. FY99 DOCS funds complete the procurement of the RSCCE and DSMS programs and continues procurement of Operational Databases. FY99 Digital Equipment funds will provide for continued fabrication of racks and components and their integration into DSCS. FY99 ICF funds will continue to accomplish DISA and JCS directed satellite ground terminal relocations supporting realignment of U.S. forces worldwide. In addition, FY99 funds annualized engineering, matrix, and fielding support for current and prior year DSCS procurements.</p>										

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				B. WEAPON DEFENSE SATELLITE COMMUNICATIONS SYSTEM (BB8500)				C. MANUFACTURER NAME		D. DATE February 1997	
ID	CD	FY 96		FY 97		FY 98		FY 99		TotalCost	Qty	UnitCost	UnitCost
		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each				
DSCS - DIGITAL EQUIPMENT		19876			17299			13611		11635			
DSCS - INTERCONNECT FACILITY		2898			3179			3138		3138			
DSCS - JAM RESISTANT SECURE COMM (JRSC)		4538			28867			19499		29438			
DSCS - OPERATIONS CONTROL SYS (DOCS)		7614			14380			16896		23563			
DSCS - MOD OF IN-SVC EQUIP		39385			33681			34499		33953			
TOTAL		74311			97406			87643		101727			

BUDGET ITEM JUSTIFICATION SHEET										DATE
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE								February 1997
OTHER PROCUREMENT / Communications and Electronics Equipment		DSCS - DIGITAL EQUIPMENT (BB8501)								
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		
QUANTITY										
COST (in millions)	19.9	17.3	13.6	11.6	11.5	11.4	7.7	7.9		

DESCRIPTION: The Defense Satellite Communications System (DSCS) is a subset of the entire Defense Communications System (DCS). The Army DSCS provides research, development, and procurement of the ground segment portion of all strategic satellite communications systems. This equipment accepts voice frequency and digital data from other terrestrial ground systems, i.e., telephone, telephone switching centers, Defense Data Network (DDN), Defense Switched Network (DSN), Secure Voice Communications and microwave; and converts the aggregate user signals into a digital signal which is then transmitted to its recipients utilizing DSCS Phase II and Phase III satellites that are in geostationary earth orbits for worldwide coverage. This long haul strategic military communications system utilizes equipment that makes maximum use of multiplexing, modulation, and coding techniques in order to maximize satellite utilization.

- This equipment is integrated into the Digital Communications Satellite Subsystem (DCSS) which is a system of electronic racks integrated into a varied or fixed configuration.
- Each system is tailored to the individual user earth terminal requirements.

JUSTIFICATION: Due to current aging equipment and projected future operational needs, DSCS Program must be sustained through the year 2010. A sustainment program has been established for the DCSS to increase supportability and efficiency while decreasing space, power, and personnel requirements. FY 98/99 funds will provide for fabrication of racks and components and their integration into the DSCS. Primary emphasis is the fabrication of racks in support of Jam Resistant Secure Communications (JRSC), and global Tri-Service Frequency Division Multiple Access (FDMA) earth terminal communications requirements scheduled for installation during this period. These JRSC racks and FDMA racks provide the maximum efficiency in long-range communications by integrating all digital communications functions, satellite control, and anti-jam secure communications in one system. The critical DCSS sustainment program will continue in this timeframe with the procurement/fielding of the Multiplex Sustainment Program which involves replacing the 1960's multiplex technology with the DSCS/ DCS standard Integrated Digital Network Exchange (IDNX). Another DCSS priority is the procurement of the Integrated Baseband Work-station, which reduces O&M costs by providing centralized equipment configuration, control, and monitoring. The DCSS will also be sustained with a Low Rate Modem to replace the current obsolete MD-1030 Modems with supportable off the shelf equipments. The DCSS also provides for the fabrication of racks and equipment to field the Strategic/Tactical Gateways, the primary means of interoperable communications providing tactical field commanders global connectivity with each other and with strategic commanders, CINC's, and the Pentagon. The Multiplexer Integration and DCSS Automation System will provide backward compatibility with the existing tactical infrastructure while also providing technology insertion for expanded capabilities. FY 98/99 also initiates the 8-PSK (phase shift keying) modem procurement, which compresses strategic users on the DCSS and allows for expanded tactical access.

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				B. WEAPON DSCS - DIGITAL EQUIPMENT (BB8501)				C. MANUFACTURER NAME See P-5A		D. DATE February 1997			
OPA Cost Elements		FY 96				FY 97				FY 98				FY 99	
ID	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost		
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000		
DCSS EQUIPMENT RACKS AND FABRICATION Hardware Integration Engineering Support Contractor Engineering Government Engineering Documentation OM-73 Modem Procurement Hardware Multiplex Systems Low Rate Modem Integrated Baseband Workstation Multiplexer Integration & DCSS Automation System (MIDAS) Non-Recurring Contractor Engrg 8-PSK Modem TOTAL DCSS	A	5517 220	6	VAR	5607 230	6	VAR	3563 150	4	VAR	3409 150	4	VAR		
		1785 1825			1800 1850			1650 1850			1650 1850				
		1000			1000			1000			1000				
		4029	237	17											
		5500	8	VAR	4500	7	VAR	3200	5	VAR					
								400	20	20					
								402	67	6	300	50	6		
					960	2	VAR	500	1	VAR	1400	3	VAR		
					1352										
			19876			17299			896	32	28	1876	67	28	
								13611			11635				

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)											DATE	February 1997
B. APPROPRIATION / BUDGET ACTIVITY												
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												
C. P-1 ITEM NOMENCLATURE												
DSCS - DIGITAL EQUIPMENT (BB8501)												
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES WIA		
DCSS EQUIPMENT RACKS AND FABRICATION												
FY 96	TYAD	WR	CECOM	Nov-95	Jan-96	6	VAR	Yes				
FY 97	TYAD	WR	CECOM	Nov-96	Jan-97	6	VAR	Yes				
FY 98	TYAD	WR	CECOM	Nov-97	Feb-98	4	VAR	Yes				
FY 99	TYAD	WR	CECOM	Nov-98	Jan-99	4	VAR	Yes				
OM-73 Modem Procurement Hardware												
FY 96	GROUP TECH CORP.	C/FFP M4(3)	CECOM	Mar-96	Oct-96	237	17	Yes				
Multiplex Systems												
FY 96	NET	MIPR	DISA	Feb-96	May-96	8	VAR	Yes				
FY 97	NET	MIPR	DISA	Feb-97	May-97	7	VAR	Yes				
FY 98	NET	MIPR	DISA	Feb-98	May-98	5	VAR	Yes				
Low Rate Modem												
FY 98	TBS	C/FFP	CECOM	Mar-98	Jun-98	20	20	Yes				
Integrated Baseband Workstation												
FY 98	TBS	C/FFP	CECOM	Feb-98	May-98	67	6	Yes				
FY 99	TBS	C/FFP	CECOM	Feb-99	May-99	50	6	Yes				
REMARKS:											DISA = DEFENSE INFORMATION SYSTEMS AGENCY NET = NETWORK EQUIPMENT TECHNOLOGY GROUP TECH CORP. = GROUP TECHNOLOGIES CORPORATION	
WR = WORK REQUEST TYAD = TOBYHANNA ARMY DEPOT MIPR = MILITARY INTERDEPARTMENTAL PURCHASE REQUEST VAR = VARIABLE												

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE
B. APPROPRIATION / BUDGET ACTIVITY										February 1997
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment										
C. P-1 ITEM NOMENCLATURE										
DSCS - DIGITAL EQUIPMENT (BB8501)										
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST \$000	SPEC AVAIL NOW	SPEC REV REQD	IF YES W/A
MIDAS										
FY 97	TBS	C/FFP	CECOM	Mar-97	Mar-98	2	VAR	Yes		
FY 98	TBS	C/FFP	CECOM	Feb-98	Feb-99	1	VAR	Yes		
FY 99	TBS	C/FFP	CECOM	Feb-99	Feb-00	3	VAR	Yes		
8 PSK MODEM										
FY 98	TBS	C/FFP	CECOM	Mar-98	Jun-98	32	28	Yes		
FY 99	TBS	C/FFP	CECOM	Mar-99	Jun-99	67	28	Yes		
REMARKS: MIDAS = MULTIPLEXER INTEGRATION & DCSS AUTOMATION SYSTEM PSK = PHASE SHIFT KEYING										

FY 98 / 99 BUDGET PRODUCTION SCHEDULE										P-1 ITEM NOMENCLATURE										DSCS - DIGITAL EQUIPMENT (BB8501)										DATE										Feb-97									

FY 98 / 99 BUDGET PRODUCTION SCHEDULE										P-1 ITEM NOMENCLATURE										DSCS - DIGITAL EQUIPMENT 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BUDGET ITEM JUSTIFICATION SHEET										DATE	February 1997
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE									
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		DSCS - INTERCONNECT FACILITY (BB8504)									
QUANTITY		FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		
COST (in millions)	2.9		3.2	3.1	3.1	3.0	3.0	3.2	3.3		
<p>DESCRIPTION: This program installs and interfaces strategic satellite communications earth terminals procured by Project Manager, Military Satellite Communications (PM Milsatcom) with digital communications equipment procured and packaged by Communications-Electronics Command (CECOM) and interfaces with existing technical control and special user facilities.</p> <p>JUSTIFICATION: FY 98/99 funds buy equipment in support of Defense Information Systems Agency (DISA) and Joint Chiefs of Staff (JCS) directed satellite ground terminal relocations supporting the realignment of US Forces worldwide. Reduced overseas manning and the refocus of US interests to areas such as Southwest Asia requires a major shift of key strategic satellite ground resources to support new areas of interest and troop dispositions. Additionally, sustaining the Defense Satellite Communications System (DSCS) systems requires marginal systems to be replaced by newer equipment made available by US troop withdrawals from Europe and other areas.</p>											

OPA Cost Analysis		A. APPN/BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				B. WEAPON DSCS - INTERCONNECT FACILITY (BB8504)				C. MANUFACTURER NAME See P-5A		D. DATE February 1997	
ID	CD	FY 96		FY 97		FY 98		FY 99					
		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
A		203	2	VAR	600	4	VAR	700	VAR	VAR	700	VAR	VAR
A		147	VAR	VAR	600	VAR	VAR	600	VAR	VAR	700	VAR	VAR
A		300	VAR	VAR	300	VAR	VAR	300	VAR	VAR	100	VAR	VAR
A		424	VAR	VAR	400	VAR	VAR	509	VAR	VAR	622	VAR	VAR
A		50			50			50			50		
A		750	1	750	250	1	250						
A		127	1	127									
A		344	VAR	VAR	579	VAR	VAR	679	VAR	VAR	666	VAR	VAR
A		400	VAR	VAR	400	VAR	VAR	300	VAR	VAR	300	VAR	VAR
A		153	1	153									
TOTAL		2898			3179			3138			3138		

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)											DATE	February 1997
B. APPROPRIATION / BUDGET ACTIVITY												
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												
C. P-1 ITEM NOMENCLATURE												
DSCS - INTERCONNECT FACILITY (BB8504)												
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A		
SITE PREP												
FY 96	IN-HOUSE	MIPR	COE 1/	Nov-95	Mar-96	2	VAR*	YES	NO			
FY 97	IN-HOUSE	MIPR	COE	Feb-97	Mar-97	4	VAR*	YES	NO			
FY 98	IN-HOUSE	MIPR	COE	Mar-98	Mar-98	VAR*	VAR*	NO				
FY 99	IN-HOUSE	MIPR	COE	Mar-99	Mar-99	VAR*	VAR*	NO				
INTERCONNECT FACILITY MBOM												
FY 96	VAR**	VAR	DDRW 2/	VAR	Mar-96	VAR*	VAR*	YES	NO			
FY 97	VAR**	VAR	DDRW	VAR	Mar-97	VAR*	VAR*	YES	NO			
FY 98	VAR**	VAR	DDRW	VAR	Mar-98	VAR*	VAR*	NO	NO			
FY 99	VAR**	VAR	DDRW	VAR	Mar-99	VAR*	VAR*	NO	NO			
FIBER OPTIC MODEMS												
FY 96	CANOGA PERKINS CORP.	3/ C/FP	CECOM	Jun-96	Jul-96	VAR*	VAR*	YES	NO			
FY 97	CANOGA PERKINS CORP.	C/FP	CECOM	Nov-96	Jul-97	VAR*	VAR*	YES	NO			
FY 98	CANOGA PERKINS CORP.	C/FP	CECOM	Jun-98	Jul-98	VAR*	VAR*	NO				
FY99	CANOGA PERKINS CORP.	C/FP	CECOM	Jun-99	Jul-99	VAR*	VAR*	NO				
DIRECT COMM LINK												
FY 96	ALLIED SIGNAL 1/	C/FP	1110TH SIG BN	Jan-96	Jan-96	1	750	YES	NO			
FY 97	ALLIED SIGNAL	C/FP	1110TH SIG BN	Dec-96	Jan-97	1	250	YES	NO			
DEICER REFURB & INSTL												
FY 96	WALTON IND 2/	S/S	CECOM	Aug-96	Aug-96	1	127	YES	NO			
REMARKS: COE = CORPS OF ENGINEERS												
1/ CORPS OF ENGINEERS, WINCHESTER, VA												
2/ DEFENSE DISTRIBUTION REGION WEST, STOCKTON, CA												
3/ CANOGA PERKINS CORPORATION, CHATSWORTH, CA												
* = SITE SPECIFIC												
** = VARIOUS CONTRACTS AWARDED BY DDRW												

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										
B. APPROPRIATION / BUDGET ACTIVITY					DATE February 1997					
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment					C. P-1 ITEM NOMENCLATURE DSCS - INTERCONNECT FACILITY (BB8504)					
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQD	IF YES W/A
DSCS EARTH TERM RESOURCE MGT SYS										
FY 96	SAIC 3/	C/FP	ISC	Jan-96	Feb-96	VAR*	VAR*	YES	NO	
FY 97	SAIC	C/FP	ASC	Jan-97	Feb-97	VAR*	VAR*	YES	NO	
FY 98	SAIC	C/FP	ASC	Jan-98	Feb-98	VAR*	VAR*	NO	NO	
FY 99	SAIC	C/FP	ASC	Jan-99	Feb-99	VAR*	VAR*	NO	NO	
UPS	EXIDE	C/FP	NAVY	Aug-96	Sep-96	1	153	YES	NO	
FY96										
REMARKS: * = SITE SPECIFIC 1/ ALLIED SIGNAL, GREENBELT, MD 2/ WALTON INDUSTRIES, RIVERSIDE, CA 3/ SAIC = SCIENCE APPLICATIONS INTERNATIONAL CORP., SIERRA VISTA, AZ 4/ EXIDE, COLUMBIA, MD										

BUDGET ITEM JUSTIFICATION SHEET										DATE
APPROPRIATION / BUDGET ACTIVITY										February 1997
OTHER PROCUREMENT 12 / Communications and Electronics Equipment					P-1 ITEM NOMENCLATURE					DSCS - JAM RESISTANT SECURE COMM (JRSC) (BA8300)
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		
QUANTITY										
COST (in millions)	4.5	28.9	19.5	29.4	21.1	9.5	6.5	6.5		
<p>DESCRIPTION: The Jam Resistant Secure Communications (JRSC) provides communications connectivity that will survive jamming and high altitude nuclear events which cause High-Altitude Electromagnetic Pulse (HEMP) and other perturbed atmospheric conditions. JRSC requirements are characterized by a combination of new and existing satellite equipments. They include: AN/GSC-52, JRSC Satellite Terminals AN/GSC-49, AN/USC-28 Spread Spectrum Multiple Access Equipment including Mitigation Modifications and the Universal Modem System (UMS). In FY98/FY99, the UMS is the only funded program. The other identified anti-jam systems have already been acquired. The UMS will enable strategic and tactical forces under the command of the U.S., U.K., France and NATO to have interoperable voice and digital data satellite communications capability under jamming and nuclear scintillation, while using non-processing transponders of the DSCS III, NATO or SKYNET 4 satellite systems.</p> <p>JUSTIFICATION: The FY98-99 funds are for the acquisition of the Universal Modem System (UMS). Forty nine (49) and sixty (60) UMS's of various configurations will be acquired in FY98 and FY99, respectively.</p>										

OPA Cost Analysis			A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				B. WEAPON DSCS - JAM RESISTANT SECURE COMM (JRSC) (BA8300)				C. MANUFACTURER NAME See P-5A		D. DATE February 1997	
OPA			FY 96		FY 97		FY 98		FY 99					
Cost Elements			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
UNIVERSAL MODEM SYSTEM (UMS) NON-RECURRING ENG/TEST HARDWARE ENGINEERING CHANGE ORDERS DOCUMENTATION PROJECT MANAGEMENT FOTE SYSTEM SUPPORT	B		16357			11		628	17195	49	351	19498	60	325
			6906						863			2652		
			1740											
			1973						372			381		
			324									2262		
TOTAL UNIVERSAL MODEM SYSTEM (UMS)			27300					18430				28578		
AN/USC-28	A			89	33									
REPLACE AN/USC-28 MAXAL COMPUTERS HARDWARE			2914											
TOTAL AN/USC-28			2914											
ENGINEERING SUPPORT														
GOVERNMENT ENGINEERING			1263					580				385		
CONTRACTOR ENGINEERING			315					489				475		
TOTAL ENGINEERING SUPPORT			1567					1069				860		
TOTAL JRSC			28867					19499				29438		

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE
B. APPROPRIATION / BUDGET ACTIVITY										February 1997
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment										
C. P-1 ITEM NOMENCLATURE										
DSCS - JAM RESISTANT SECURE COMM (JRSC) (BA8300)										
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY Each	UNIT COST \$	SPECS AVAIL NOW	SPEC REV REQD	IF YES W/A
AN/USC-28 FY 1996	MAGNAVOX, TORRANCE, CA	SS/FP	CECOM	Nov-95	Nov-96	89	29	Yes	No	
UNIVERSAL MODEM SYSTEM FY 1997	TBS	C/FP	CECOM	Feb-97	Mar-99	11	**628	Yes	No	
UNIVERSAL MODEM SYSTEM FY 1998	TBS	C/FP(Opt)	CECOM	Mar-98	Jul-99	49	351	Yes	No	
UNIVERSAL MODEM SYSTEM FY 1999	TBS	C/FP(Opt)	CECOM	Mar-99	Jul-00	60	325	Yes	No	
REMARKS: ** IT SHOULD BE NOTED THAT THE UNIT COST FOR A SINGLE CHANNEL EQUIVALENT UNIVERSAL MODEM IS \$98.1K. THE COST AT ** IS FOR A FULLY POPULATED UNIVERSAL MODEM WITH ITS COMPLEMENT OF SYSTEM PLANNING TOOLS AND TRAINING DEVICES. IT ALSO INCLUDES VERY SIGNIFICANT UP FRONT COMSEC ACQUISITION COSTS. THE UNIT COST FOR FY98 WILL BE APPROXIMATELY \$351K.										

FY 98 / 99 BUDGET PRODUCTION SCHEDULE										P-1 ITEM NOMENCLATURE										DSCS - JAM RESISTANT SECURE COMM (JRSC) (BAG300)										DATE										February 1997									
										Fiscal Year 96										Fiscal Year 97																													
										Calendar Year 96										Calendar Year 97																													
										OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC										OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC																													
										MFR Number										MFR										TOTAL										REMARKS									
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FY 98 / 99 BUDGET PRODUCTION SCHEDULE										DATE		February 1997																					
P-1 ITEM NOMENCLATURE										DSCS - JAM RESISTANT SECURE COMM (JRSC) (BA8300)																							
										Fiscal Year 98		Fiscal Year 99																					
										Calendar Year 98		Calendar Year 99																					
										O	N	D	J	F	M	A	M	A	M	J	J	J	A	A	S	P	L						
										C	O	E	A	E	A	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	L	
										T	V	C	N	N	B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R			
										ACCEP. PRIOR TO 1 OCT		PROC QTY Each		S E R V		FY		M F R		BAL DUE AS OF 1 OCT													
COST ELEMENTS																																	
UNIVERSAL MODEM SYSTEM										1		11		A		97		1		11													
										1		49		A		98		1		49													
										1		60		A		99		1		60													
AN/USC-28										2		89		A		96		2		89													

BUDGET ITEM JUSTIFICATION SHEET										DATE
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE								
OTHER PROCUREMENT /2 / Communications and Electronics Equipment		DSCS - OPERATIONS CONTROL SYS (DOCS) (BB8509)								
		FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	
QUANTITY										
COST (in millions)		7.6	14.4	16.9	23.6	12.3	13.2	9.6	9.9	
<p>DESCRIPTION: The Defense Satellite Communications System (DSCS) Operations Control System (DOCS) provides for the management of DSCS earth terminal and satellite resources, which is required for rapid and efficient reaction to operational needs. DOCS is made up of a number of semi-automated subsystems which configure, monitor, maintain, and restore all communications links, and automatically control operations over these links. The Objective DSCS Operations Center (ODOC) will modernize the existing DOCS subsystems to provide improved satellite communications to Ground Mobile Forces and Strategic users. It will replace the existing (largely manual) control system, provide greatly enhanced responsive system control, reduce the number of personnel required, and increase overall system availability. DOCS supports control of the satellite payload, strategic network planning, satellite communications link performance monitoring, and control of ground terminals. DOCS assure reliable satellite communications networks to support unique user mission requirements vital to national security under stressed and unstressed conditions.</p> <p>JUSTIFICATION: FY98 funds procure the Replacement Satellite Configuration Control Element (RSCCE) Option 2 quantities, as well as an engineering change that fine tunes the nulling capability for the RSCCE. The RSCCE is required to provide real-time monitoring and control of the DSCS III satellite platform and communications payload. In addition, FY98 funds the DSCS Spectrum Management System (DSMS), which replaces the current DSCS Automatic Spectrum Analyzer (DASA). DSMS will employ advanced Digital Signal Processing techniques to provide rapid characterization of transponder utilization and time domain analysis to keep pace with the rapid signal characterization required to support Demand Assigned Multiple Access (DAMA) services. FY98 also procures Operational Databases which are required for command and control of DSCS III satellites and DOCS Training System Software which is used to train personnel on the DOCS subsystems. Finally, FY98 funds annualized engineering, matrix, system integration, and fielding support of current and prior year procurements.</p> <p>FY99 funds procure the remaining RSCCE and DSMS quantities. FY99 funds procure the Operational Databases, DOCS Training System (DTS) and Smart Multi-Channel Circuit Terminal (SMCT) software. The SMCT software is required to provide automated message processing with archival storage capabilities for the terrestrial circuits with the earth terminals and will be hosted on the DSCS Integrated Management System (DIMS) computer platform. In addition, FY99 will fund the first Replacement BATSON (RBATSON) production units. RBATSON is required to provide security, authentication, and anti-jam waveform protection to satellite commands received by the RSCCE for transmission to DSCS III satellites. Finally, FY99 will fund for annualized engineering, matrix, system integration, and fielding support of current and prior year procurements.</p>										

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				B. WEAPON DSCS - OPERATIONS CONTROL SYS (DOCS) (BB8509)				C. MANUFACTURER NAME See P-5A		D. DATE February 1997	
OPA Cost Elements	ID CD	FY 96		FY 97		FY 98		FY 99					
		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	TotalCost \$000	Qty Each	UnitCost \$000	UnitCost \$000
Hardware													
DIMS		1521	5	304	2879	5	576	2979	6	4949	9	550	
RSCCE								1992	12	2200	14	157	
DSMS										4204	9	467	
RBATSON													
Engineering Changes (DIMS/RSCCE)								659		568			
Software		1076			1581			6004		4573			
Systems Integration		656			3611			1500		1500			
Engineering Support		697			1666								
Contractor Engineering		843			811			820		1200			
Government Engineering		1853			1677			1649		2310			
Documentation		34			1355			793		1559			
Fielding		734			600			300		300			
Project Management Administration		200			200			200		200			
TOTAL		7614			14380			16896		23563			

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE
B. APPROPRIATION / BUDGET ACTIVITY					C. P-1 ITEM NOMENCLATURE					February 1997
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment										
DSCS - OPERATIONS CONTROL SYS (DOCS) (BB8509)										
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A
DSCS Integrated Management Sys (DIMS) FY 96	Stanford Telecom, Inc Colorado Springs, CO	C/FP(Opt)	CECOM	Dec-95	Jul-96	5	304	Yes	No	
Replacement Satellite Configuration Control Element (RSCCE) FY 97 *	Stanford Telecom, Inc Colorado Springs, CO	C/FP(Opt)	CECOM	May-97	Feb-99	5	576	Yes	No	
FY 98		C/FP(Opt)	CECOM	Mar-98	Jul-99	6	497	Yes	No	
FY 99		C/FP(Opt)	CECOM	Nov-98	Jan-00	9	550	Yes	No	
DSCS Spectrum Management System (DSMS) FY 98	TBS	C/FP	CECOM	Feb-98	Jun-99	12	166	Yes	No	
FY 99		C/FP(Opt)	CECOM	Mar-99	Jan-00	14	157	Yes	No	
Replacement BATSON FY 99 **	Stanford Telecom, Inc Colorado Springs, CO	C/FP	CECOM	Feb-99	Aug-00	9	467	Yes	No	
REMARKS: * A competitive NDI Adaptation was awarded in Apr 95 with RDT&E funds. This contract included three fixed price production options. The first production option is scheduled to be awarded in FY97.										
** A competitive development contract was awarded in Dec 96 with RDT&E funds. This contract included two fixed price production options. The first RBATSON production option is scheduled for award in FY99.										

FY 98 / 99 BUDGET PRODUCTION SCHEDULE															P-1 ITEM NOMENCLATURE										DSCS - OPERATIONS CONTROL SYS (DOCS) (BBB509)										DATE										February 1997																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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BUDGET ITEM JUSTIFICATION SHEET										DATE	February 1997
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE									
OTHER PROCUREMENT / Communications and Electronics Equipment		DSCS - MOD OF IN-SVC EQUIP (BBB416)									
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003			
QUANTITY											
COST (in millions)	39.4	33.7	34.5	34.0	23.0	34.3	33.0	30.7			
<p>DESCRIPTION: These modifications will upgrade aging heavy terminals (HT), medium terminals (MT) and light terminals (LT) satellite earth terminals so that all Defense Satellite Communications System Super High Frequency (SHF) strategic earth terminals will use common electronics and logistics support. The result will extend the life of the terminals, increase readiness, reduce training and logistics support, conserve energy and improve maintainability. In addition, a modernization effort is planned for the AN/GSC-52 System which will eliminate system obsolescence, modernize existing equipment and provide parts commonality with other existing terminals.</p> <p>JUSTIFICATION: FY98 funds are required to install/field the HT/MT/LT modification work order (MWO) kits. FY98 funds are also required to award the basic contract for the AN/GSC-52 installation kits, procure vans for the AN/GSC-52 Modernization Program and acquire the necessary software for the above mentioned programs.</p> <p>FY99 funds are required to continue the installation/fielding of the HT/MT/LT MWO kits. FY99 funds are required to procure the first option for the AN/GSC-52 installation kits and complete the acquisition of AN/GSC-52 vans and AN/GSC-52 components that are common to the other DSCS satellite terminals.</p>											

BUDGET ITEM JUSTIFICATION SHEET		DATE
APPROPRIATION / BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE	February 1997
OTHER PROCUREMENT / Communications and Electronics Equipment		DSCS - MOD OF IN-SVC EQUIP (BB8416)

Exhibit P-40
Budget Item Justification Sheet

MODIFICATION INSTALLATION SUMMARY									
									Date February 1997
(TOA, Dollars in Millions)									
System/Modification	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	TOTAL
px									
No P3a Set for modification									
DEFENSE SATELLITE COMMUNICATIONS SYSTEM (SPACE)									
BB8416									
AN/GSC-52 Modernization	0.0	0.0	0.0	0.0	0.0	1.3	4.4	5.7	11.4
Terminal Modernization	8.8	5.6	5.7	5.7	1.0	0.0	0.0	0.0	26.8
Totals	8.8	5.6	5.7	5.7	1.0	1.3	4.4	5.7	38.2

INDIVIDUAL MODIFICATION		Date	February 1997
MODIFICATION TITLE:	AN/GSC-52 Modernization 1-89-07-0030		
MODELS OF SYSTEMS AFFECTED:	AN/GSC-52 Modernization		
DESCRIPTION / JUSTIFICATION:	<p>The modernization effort of the AN/GSC-52 System will eliminate obsolescence, modernize the existing equipment and provide commonality with other existing terminals. The acquisition strategy consists of a two contractor approach. In FY97, components which are common to the AN/GSC-39 and AN/FSC-78/79 terminals will be purchased from an existing contractual vehicle as a cost effective means to insure component commonality for these DSCS Terminals. Another contract will be awarded in FY98 for the production of installation kits and installation of the AN/GSC-52 hardware. The guidance was directed by DISA DSCS Program Plan FY93-98, dated January 1994. FY98 funds are required to begin procuring the installation kits and software for the AN/GSC-52 Modernization effort. FY99 funds continue the acquisition of AN/GSC-52 installation kits and complete the procurement of common components.</p>		
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:	<p>PLANNED _____ ACCOMPLISHED _____</p> <p>FY99 funds are required to continue the acquisition of AN/GSC-52 installation kits and complete the procurement of common components.</p>		

INDIVIDUAL MODIFICATION		Date	February 1987
MODIFICATION TITLE:		Terminal Modernization 1-89-07-0005	
MODELS OF SYSTEMS AFFECTED:		AN/FSC-78/79, AN/GSC-39, and AN/TSC-86	
DESCRIPTION / JUSTIFICATION:		<p>The AN/FSC-78/79 Heavy Terminal (HT), the AN/GSC-39 Medium Terminals (MT) and the AN/TSC-86 Light Terminal (LT) began operation in the mid-1970's and have surpassed their design life of fifteen years. The original systems were fielded with a required Mean Time Between Failures (MTBF) of 1,000 hours. Due to aging, the MTBF degraded significantly. The Terminal Modernization program will eliminate system obsolescence and enable the terminals to achieve the required 1,000 hours MTBF. The contract was awarded in Mar 92 for this modernization effort, which will provide for upgrading of aging electronics in the HT/MT satellite earth terminals so that all Defense Satellite Communications Systems (DSCS) Super High Frequency (SHF) strategic earth terminals will use common electronics and logistics support. The result will extend the life of the terminals for another fifteen years, enhance operational readiness, reduce training and logistics support, conserve energy and improve maintainability. This Tri-Service DOD Program was approved in the FY91-95 DSCS Program Plan, June 1989. The AN/TSC-86 MWO kits will be procured from this contract and then integrated at Tobyhanna Army Depot. FY98 and FY99 funds are required to continue the completion of the installation/fielding of the Terminal Modernization Program.</p>	
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:		<div> <div>PLANNED</div> <div>ACCOMPLISHED</div> </div>	
No development required			

INDIVIDUAL MODIFICATION																				
Date February 1997																				
Terminal Modernization 1-89-07-0005																				
MODIFICATION TITLE (Cont):																				
FINANCIAL PLAN: (\$ in Millions)																				
	FY 1996 and Prior		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
Reprogram to Higher Army Priorities	3.4																			3.4
PROCUREMENT																				
Equipment		93.9		5.1																99.0
Equipment (nonrecurring)		16.7																		16.7
Installation Kits (recurring)	52	8.7																52	8.7	
Installation Kits (nonrecurring)		5.4																	5.4	
Engineering Change Orders		7.4																	7.4	
Data		12.2																	12.2	
Training Equipment		2.6																	2.6	
Support Equipment		0.3																	0.3	
GFE		6.3																	6.3	
Project Mgt Admin		3.0		0.5						0.3									4.6	
Fielding		2.8		0.3						0.2									3.6	
Interim Contractor Support		5.9		0.6						0.4									7.7	
Gov't/Contr Support		20.8		1.1						0.5									23.6	
Installation of Hardware																				
FY 1996 & Prior Eqpt -- Kits	14	8.8	12	5.6	12	5.7	12	5.7	2	1.0								52	26.8	
FY 1997 Eqpt -- Kits																				
FY 1998 Eqpt -- Kits																				
FY 1999 Eqpt -- Kits																				
FY 2000 Eqpt -- kits																				
FY 2001 Eqpt -- kits																				
FY 2002 Eqpt -- kits																				
FY 2003 Eqpt -- kits																				
(FY(TC) Eqpt (xx kits)																				
Total Installation Cost	14	8.8	12	5.6	12	5.7	12	5.7	2	1.0								52	26.8	
Total Procurement Cost		198.2		13.2		8.1		7.1		1.7									228.3	
METHOD OF IMPLEMENTATION MWO																				
Contract Dates: FY 1997: 5 Months PRODUCTION LEADTIME: 15 Months																				
Delivery Date: FY 1997: FY 1998: FY 1999:																				

Installation Schedule: Terminal Modernization 1-89-07-0005												
FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		February 1997
& Prior		1	2	3	4	1	2	3	4	1	2	3
Inputs												Total
FY 1996 & Prior		25	1	1	3	3	3	3	3	3	3	1
FY 1997												52
FY 1998												
FY 1999												
Outputs												
FY 1996 & Prior		14	3	3	3	3	3	3	3	3	3	2
FY 1997												52
FY 1998												
FY 1999												
Inputs												
FY 2000		1	2	3	4	1	2	3	4	1	2	3
FY 2001												4
FY 2002												
FY 2003												
Outputs												
FY 2000												
FY 2001												
FY 2002												
FY 2003												
Remarks:												

BUDGET ITEM JUSTIFICATION SHEET										DATE February 1997
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE								
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		SAT TERM, EMUT (K77200)								
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		
QUANTITY	666	620	207							
COST (in millions)	17.0	18.6	7.3	1.8	0.0	0.0	0.0	0.0	0.0	
<p>DESCRIPTION: The Enhanced Manpack UHF Terminal (SPITFIRE) program replaces the existing inventory of single channel SATCOM radios to add Communications Security (COMSEC) and Demand Assigned Multiple Access (DAMA) to support all DoD, Special Operations Forces (SOF) and other Agencies. Joint Staff (JS) has mandated that all UHF satellite manpack terminals be secure and have DAMA capability. No other DoD manpack terminals possess the UHF DAMA capability, which allows more efficient use of limited satellite resources.</p> <p>JUSTIFICATION: The FY98/99 funds will procure UHF tactical terminals (Spitfires) and field prior year procurements.</p>										

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		B. WEAPON SAT TERM, EMUT (K77200)		C. MANUFACTURER NAME Hughes Defense Corp. Ft Wayne, IN		D. DATE February 1997	
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99	
ID	CD	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each
A		13279	666	20	12914	625	21	4905	185
Hardware									
Engineering Support									
Contractor Engineering		812			615			432	
Government Engineering		1277			1384			1190	
ECP's		270			977				
Test		998			394				
Vehicular Power Adapters and Amplifiers					1880				
Fielding		316			445			737	
TOTAL		16952			18609			7264	
NOTE: Quantities have been adjusted to reflect current program planning								539	
								1840	

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE
B. APPROPRIATION / BUDGET ACTIVITY										February 1997
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment										
C. P-1 ITEM NOMENCLATURE										
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY Each	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQD	IF YES W/A
Hardware										
FY 94	Magnavox Elec, Ft. Wayne, IN	C/FFP	CECOM	Jan-94	Sep-95	275	19	Yes	No	
FY 95	Magnavox Elec, Ft. Wayne, IN	FFP/Opt	CECOM	Apr-95	Jul-97	593	20	Yes	No	
FY 96	Magnavox Elec, Ft. Wayne, IN	FFP/Opt	CECOM	Jun-96	Jul-98	666	20	Yes	No	
FY 97	Hughes Defense, Ft. Wayne, IN	FFP/Opt	CECOM	Jun-97	Aug-99	625	21	Yes	No	
FY 98	Hughes Defense, Ft. Wayne, IN	FFP/Opt	CECOM	Mar-98	Apr-00	185	27	Yes	No	
REMARKS: Unit costs reflect negotiated prices from range quantity contract, and can be significantly affected by other service/customer participation in an annual buy. Magnavox Electronics was purchased by Hughes Defense Corp.										

FY 96 / 97 BUDGET PRODUCTION SCHEDULE										P-1 ITEM NOMENCLATURE										DATE										February 1997																			
										SAT TERM, EMUT (K77200)										Fiscal Year 97										Fiscal Year 98										L									
																				Calendar Year 97										Calendar Year 98																			

BUDGET ITEM JUSTIFICATION SHEET										DATE	February 1997
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE									
OTHER PROCUREMENT / Communications and Electronics Equipment		NAVSTAR GLOBAL POSITIONING SYSTEM (K47800)									
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003			
QUANTITY	2112	12017	17	14	14	7019	7120	12519			
COST (in millions)	49.0	26.3	6.8	7.0	6.9	33.3	34.0	52.0			

DESCRIPTION:

The Navstar Global Positioning System (GPS) is a passive space based radio positioning and navigation system that provides position, velocity and time information to a user in three dimensions to 16 meters Spherical Error Probable (SEP). GPS User Equipment (UE) is a family of receivers designed to accommodate the differing dynamic user environments to include handheld as well as host platforms. Current Army acquisition strategy is to procure a mix of Non-Developmental Item (NDI) equipment that will satisfy all user/platform requirements while enforcing standardization in accordance with DoD policy. Miniaturized Airborne GPS Receiver (MAGR) is a NDI 5-channel set for Signal Warfare aircraft. Precision Lightweight GPS Receiver (PLGR) is a NDI receiver for ground users, and host vehicles. The NDI Stand Alone Air GPS Receiver (SAGR) and the Cargo Utility GPS Receiver (CUGR) will satisfy Army requirements for low dynamic Army aviation in the non-modernized fleet. This NDI family of User Equipment meets DoD requirements for Selective Availability and Anti-Spoofing and provides the users with Precise Positioning Service (PPS).

JUSTIFICATION:

The FY98 and FY99 program will sustain the Product Manager's administrative cost, field receivers procured in FY97 and FY98 and initiate procurement of the Defense Advanced GPS Receiver (DAGR). The FY98 and FY99 program will also allow for integration efforts for Army MAGR requirements. The FY 98 program allows the Product Manager to procure a small quantity of PLGR's remaining on the last option.

OPA Cost Analysis			A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			B. WEAPON NAVSTAR GLOBAL POSITIONING SYSTEM (K47800)			C. MANUFACTURER NAME See P-5a			D. DATE February 1997		
OPA Cost Elements			FY 96			FY 97			FY 98			FY 99		
ID	CD		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
HARDWARE														
		1. Aircraft MAGR	219	12	18	2225	89	25						
		2. Ground PLGR	21370	19700	1	11485	9570	1	1119	932	1			
		3. SAGR	600	200	3									
		4. CUGR	14400	785	18									
		5. DAGR												
AWE Support						1000						1179	393	3
Testing			1235			510			803			803		
Engineering Support														
		Service Support Contracts - Mgmt OH	2748			2755			272			281		
		Government In-House - Mgmt OH	1662			1678			272			281		
		Integration Engineering	424			489			351			445		
Engineering Change Orders			2319			2784								
Documentation			200			200			50			100		
Integrated Support Facility			200			200			200			200		
Program Management Administration			2330			2330			2330			2330		
Fielding			612			600			1399			1399		
GPS VTXI			721											
TOTAL			49040			26256			6796			7018		
NOTE: Quantities shown are actual quantities to be procured.														

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)											DATE	February 1997
C. P-1 ITEM NOMENCLATURE												
NAVSTAR GLOBAL POSITIONING SYSTEM (K47800)												
B. APPROPRIATION / BUDGET ACTIVITY												
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY Each	UNIT COST \$	SPECS AVAIL NOW	SPEC REV REQD	IF YES W/A		
1. Aircraft MAGR												
FY 96	Rockwell Collins, Cedar Rapids, IA	C/FFP/OPT	USAF	Mar-96	Jun-97	12	18250	Yes				
FY 97	Rockwell Collins, Cedar Rapids, IA	SS/FPI	USAF	Mar-97	Jun-98	89	25000	Yes				
2. Ground PLGR												
FY 96	Rockwell Intern'l, Cedar Rapids, IA	C/FFP/OPT	USAF	Jan-96	Jul-96	19700	1085	Yes				
FY 97	Rockwell Intern'l, Cedar Rapids, IA	C/FFP/OPT	USAF	Jan-97	Jul-97	9570	1200	Yes				
FY98	Rockwell Intern'l, Cedar Rapids, IA	C/FFP/OPT	USAF	Jan-98	Jul-98	932	1200	Yes				
3. SAGR FY96	Trimble Nav, Sunnyvale, CA	SS/FFP	USA	Jan-96	Apr-96	200	3000	Yes				
4. CUGR FY96	Trimble Nav, Sunnyvale, CA	C/FFP	USA	Sep-96	Mar-97	785	18344	Yes				
5. DAGR FY99	TBD	TBD	USAF	Mar-99	Sep-99	393	3000	No				
REMARKS: NOTE: PLGR unit cost includes required accessories. CUGR unit cost includes required accessories.												

BUDGET ITEM JUSTIFICATION SHEET										DATE
APPROPRIATION / BUDGET ACTIVITY										February 1997
OTHER PROCUREMENT / Communications and Electronics Equipment					P-1 ITEM NOMENCLATURE					GROUND COMMAND POST (8C4001)
	FY1996	FY1997	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003		
QUANTITY	0	0	0	0	0	0	0	0		
COST (in millions)	0.8	0.7	0.6	0.0	0.0	0.0	0.0	0.0	0.0	
<p>DESCRIPTION:</p> <p>Milstar Ground Command Post Terminals (GNDCP) - AN/FRC-181(V1) (fixed) and AN/TRC-194(V1) (transportable) terminals provide survivable, worldwide two-way anti-jam, and enduring voice and data communications. The Extremely High Frequency/Ultra High Frequency (EHF/UHF) command post terminals are designed for use with communications satellites which provide the next generation military satellite communications systems. GNDCP terminals are designed for high capacity command post operation to include a mission control segment interface, emergency action message dissemination, force direction, CINCPAC operations, and full beam management. A contract for the remaining terminals was awarded in May 93 by the USAF. These terminals will be deployed for command, control, and special user missions, and will be operated and maintained by the Army. A total of seven (7) terminals were procured by the USAF for the Army and will be integrated into the Army Force Structure.</p> <p>JUSTIFICATION:</p> <p>Delivery of the US Air Force procured terminals to the Army for integration into the Army force structure began in Nov 93. The first Army terminal (Fort McPherson, GA) was accepted by the Army for operation in Feb 95. This project has been synchronized with and is in support of the Milstar Low Data Rate (LDR) spacecraft launches. The FY98 funds will be utilized for Total Package Fielding (procurement of support items, special tools, repair parts, GFE, generators, etc), for fielding terminals at SHAPE, BE, and Vaihingen, GE. These terminals will be operated and maintained by Army personnel to support CINC and NCA missions.</p>										

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				B. WEAPON GROUND COMMAND POST (BC4001)				C. MANUFACTURER NAME		D. DATE February 1997	
OPA Cost Elements	ID CD	FY96		FY97		FY98		FY99					
		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
Total Package Fielding Modifications		392			343			297					
In-House Costs & Fielding Support		75			70			53					
		289			297			239					
TOTAL		756			710			589					

BUDGET ITEM JUSTIFICATION SHEET										DATE
APPROPRIATION / BUDGET ACTIVITY										February 1997
OTHER PROCUREMENT / Communications and Electronics Equipment					P-1 ITEM NOMENCLATURE					
SMART-T (BC4002)										
QUANTITY	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		
COST (in millions)	51.4	34.7	22.8	61.0	66.0	44.8	16.3	11.2		

DESCRIPTION:

SMART-T is a multi-channel satellite terminal required to support a Force Projection Army. It will provide range extension capability to the Army's Mobile Subscriber Equipment (MSE), a critical requirement demonstrated during Operation Desert Storm. Specifically, SMART-T will provide a satellite interface to permit uninterrupted voice/data communications as our advancing forces move beyond the MSE Line of Sight capability. These terminals will triple the battlefield capability with respect to Command, Control and Communications. SMART-T will provide connectivity between selected MSE Node Centers (NC), Large Extension Nodes (LEN), Small Extension Nodes (SEN), and Remote Radio Access Units (RAU), to support Echelons Corps and Below as well as Special Contingency Operations, and communicate with other service Milstar terminals. It will transmit in Extremely High Frequency (EHF) band and will receive in Super High Frequency (SHF) band. The terminal will operate at both Medium Data Rate (MDR) and Low Data Rate (LDR). It will be capable of unattended operation. SMART-T will have the inherent capability of low probability of interception and low probability of detection (LP/LPD) to avoid being targeted for destruction, jamming, or eavesdropping. SMART-T is interoperable with all other Milstar terminals and is interoperable with Milstar, Navy UHF Follow-on and any MIL-STD-1582 B/C compatible payloads.

JUSTIFICATION:

FY98 funds Total Package Fielding (TPF) of 20 LRIP Army Terminals procured in FY96, provides contractor logistics support, conducts MST- 5300, MST-6000 Terminal to MDR Payload Interoperability tests, implements interactive training device capability and continues Systems Engineering. FY99 funds procure forty-five Army Selected Acquisition Review Council (ASARC) approved Army Full Rate Production (FRP) terminals. The Milstar satellite launches fully support the acquisition plan so the fullest on-orbit capability can be realized. The SMART-T will be the only fielded Milstar MDR capable terminal at the time of satellite launch.

OPA Cost Analysis			A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				B. WEAPON SMART-T (BC4002)		C. MANUFACTURER NAME Raytheon Marlborough, MA		D. DATE February 1997	
OPA Cost Elements			FY 96		FY 97		FY 98		FY 99			
ID	CD		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	
SMART-T												
Contract Terminal Cost			27488	20	1374	18647	23	811	8634		47944	45
Engineering support			753			3950			3240		3870	
Data			1674			57					101	
System Project Mgmt/Gov't			5970			8468			7733		5810	
System Test & Evaluation			3988			1040			1647		1505	
GFE			1886			2508					498	
Fielding									1508		1291	
TOTAL			41759			34670			22762		61019	
NOTES:												
1. Contract Terminal Cost element includes recurring & non-recurring costs & contractor Systems Project Mgmt. Costs are higher in FY96 as non-recurring costs are paid in the first year of the fixed price contract.												
2. LRIP/FSP contract awarded 7 Feb 96 to Raytheon Co (Marlborough, MA). FY96/97 Contract costs were less than estimated. FY 96 savings used to offset critical PEO C3S shortfalls			9670									
GRAND TOTAL			51429									

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE	February 1997
B. APPROPRIATION / BUDGET ACTIVITY		C. P-1 ITEM NOMENCLATURE									
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		SMART-T (BC4002)									
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY Each	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A	
SMART-T											
FY 96	Raytheon Co., Marlborough, MA	C/FP	CECOM	Feb-96	Feb-98	20	1374	Yes	No		
FY 97	Raytheon Co., Marlborough, MA	C/FP/OPT	CECOM	Jan-97	Oct-98	23	811	Yes	No		
FY 99	Raytheon Co., Marlborough, MA	C/FP/OPT	CECOM	Oct-98	Apr-00	45	1065	Yes	No		

REMARKS:

1) FY 96 & FY 97 - LRIP

2) PB 98 procures 313 Joint Service requirements:

- Army = 209
- USAF = 73
- JCS E = 6
- USMC = 25

313

FY 98 / 99 BUDGET PRODUCTION SCHEDULE										P-1 ITEM NOMENCLATURE										SMART-T (BC4002)										DATE										February 1997										L																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									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PRIOR TO 1 OCT										BAL DUE AS OF 1 OCT										Fiscal Year 96										Fiscal Year 97										O C T										N O V										D E C										J A N										F E B										M A R										A P R										M A Y										J U N										J U L										A U G										S E P										O C T										N O V										D E C										J A N										F E B										M A R										A P R										M A Y										J U N										J U L										A U G										S E P										O C T										N O V										D E C										J A N										F E B										M A R										A P R										M A Y										J U N										J U L										A U G										S E P										O C T										N O V										D E C										J A N										F E B										M A R										A P R										M A Y										J U N										J U L										A U G										S E P										O C T										N O V										D E C										J A N										F E B										M A R										A P R										M A Y										J U N										J U L										A U G										S E 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BUDGET ITEM JUSTIFICATION SHEET										DATE
APPROPRIATION / BUDGET ACTIVITY										February 1997
OTHER PROCUREMENT / Communications and Electronics Equipment										
P-1 ITEM NOMENCLATURE										
SCAMP (BCA003)										
QUANTITY	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		
	57	93	0	0	0	0	0	0		0
COST (in millions)	20.1	14.4	4.3	4.8	1.8	1.7	0.5	0.2		

DESCRIPTION:

The SCAMP BLK I Terminal will provide a manportable, four simultaneous channel, full duplex data/half duplex voice communications and data transfer system at 2400 bps each. These satellite terminals are to be employed by units that require range extension for command and control communications. Block I will provide priority tactical ground users with the capability to transmit and receive intelligence, command, and control traffic from a base station. It will transmit in the Extremely High Frequency (EHF) band and receive in the Super High Frequency (SHF) band. It will provide Low Data Rate (LDR) secure voice at 2400 bps and secure data at 75-2400 bps, as well as interface with Common Hardware/Software devices such as the Lightweight Computer Units and the Hand-Held Terminal Unit. The SCAMP BLK I will be fully interoperable within the Army C4I Technical Architecture. The terminal will have embedded COMSEC and TRANSEC with set-up and tear-down in less than 10 minutes. In addition to operation on Milstar satellites, the SCAMP BLK I will operate on all satellites which utilize the MIL-STD-1582C/D LDR waveform. It will be required to operate in environmental conditions that include smoke, aerosol, rain, fog, snow, haze and dust, and must operate in the transmit, receive or stand-by mode throughout an entire mission (typically 30 days). SCAMP BLK I is the first EHF manportable terminal and provides direct support to the tactical warfighter mobile forces with greater anti-jam protection, lower probability of intercept, and lower probability of detection.

JUSTIFICATION:

FY98/99 funds Total Package Fielding (TPF) of 150 Army Block I terminals procured in FY96/97, supports Joint Intersegment and Warfighter Interoperability Tests and incorporates modifications. Army Block I terminals are designated for Commanders at Division and Above levels. The DoD successfully launched two Milstar LDR EHF frequency waveband satellites in Feb 94 and Nov 95. SCAMP Block I provides manportable EHF/LDR communications in support of the on-orbit satellites.

OPA Cost Analysis		A. APPN/BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				B. WEAPON SCAMP (BC4003)				C. MANUFACTURER NAME Rockwell Int'l Richardson, TX				D. DATE February 1997	
OPA Cost Elements		FY 96				FY 97				FY 98				FY 99	
ID	CD	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	TotalCost \$000	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	
B		11144	57	196	7216	93	78	14		169					
Contract Terminal Cost		3356			1897			1266		1001					
Engineering Support		1616			2329			1107		1025					
System Project Mgmt Gov't		1602			2000										
System Engineering		1306			888			884		966					
System Test		80			10										
Training		758													
Data		195			85			1034		1652					
Fielding															
TOTAL		20057			14425			4305		4813					

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE
B. APPROPRIATION / BUDGET ACTIVITY										February 1997
C. P-1 ITEM NOMENCLATURE										
SCAMP (BC4003)										
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY Each	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQD	IF YES W/A
Hardware										
FY 96	Rockwell Int'l, Richardson, TX	C/FP	CECOM	Feb-96	Jun-97	57	196	Yes	No	
FY 97	Rockwell Int'l, Richardson, TX	C/FP	CECOM	Feb-97	Mar-98	93	78	Yes	No	

REMARKS:

Multi-Service Procurement of a total of 312 SCAMP BLK I

- Army = 150
- USAF = 154
- JCSE = 8

BUDGET ITEM JUSTIFICATION SHEET							DATE	
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE					February 1997	
OTHER PROCUREMENT / Communications and Electronics Equipment		GLOBAL BRDCST SVC - GBS (BC4120)						
QUANTITY	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
COST (in millions)	0.0	0.0	5.0	0.0	6.0	6.0	0.0	0.0
<p>DESCRIPTION:</p> <p>Global Broadcast Service (GBS) is a new joint program that responds to the need for a continuous, high-speed, one-way information flow of high volume multi-media information such as imagery, maps, weather data, logistics, air tasking orders, etc., to users worldwide. GBS is an integral part of the Defense Information Infrastructure (DII) and a part of the overall DoD MILSATCOM architecture. The DoD GBS initiative was formalized by a Joint Acquisition Decision Memorandum, 27 Mar 96. The Army is the lead service for ground terminal development and procurement for all users.</p> <p>GBS consists of broadcast management (BM), space and terminal segments. The capabilities will evolve through a three-phased program as GBS progresses towards the Phase III objective system. The user receive terminal, consisting of a small satellite antenna, low noise block and receiver, will receive and convert the RF downlink signal into a bit stream for receive broadcast management decryption and distribution to end users. An in-theater injection capability via Theater Injection Points (TIPs) will be designed to transmit vital Commander in Chief (CINC) / Commander Joint Task Force (CJTTF) in-theater information to in-theater receive terminals.</p> <p>The current Phase I evolved the Concept of Operations using commercially leased satellite and receive terminal capabilities. Phase II which begins in FY97 will provide a near worldwide interim capability using a GBS package hosted on Navy Ultra High Frequency (UHF) Follow-On (UFO) satellites 8, 9 and 10 and modified commercial item terminals operating at Ka band. Phase III will implement a fully capable worldwide system of DoD satellites and terminals after the turn of the century with the exact timeframe to be defined by the DoD Space Architecture.</p> <p>The Army is pursuing a technology driven approach to acquire the Phase II terminals. Phase II is moving out to take advantage of existing technology and utilize satellite capability. An FY97 close to commercial item, competitive, best value award for all services for Phase II interim ground terminal requirements will be awarded for Ground Receive Terminals (GRT), Primary Injection Points (PIPs), and common receive equipment for shipborne terminals by the Army. The GBS Joint Program Office (JPO) will fund the FY97 PIPs and a basic quantity of 50 GRTs for each service (Total 150).</p> <p>JUSTIFICATION:</p> <p>The Army will award an FY97 GBS terminal contract for Phase II interim terminal capabilities for all services and special users. FY97 terminals will be funded by the Joint Terminal Office (JTO). The need for this communications system was validated by the Joint Requirements Oversight Council (JROC) in a Joint Mission Needs Statement, dated 3 Aug 95, and the concept was validated by use of a GBS-like demonstration system in support of the Bosnia peace mission and Joint Warfighting Interoperability Demonstration (JWID) 95. This system will support other MILSATCOM systems and is required to support the Army warfighter needs for high volume multi-media information without saturating existing high priority systems. FY98 funds procure 42 Army GRTs and BM suites to support launched satellites.</p>								

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				B. WEAPON GLOBAL BRDCST SVC - GBS (BC4120)				C. MANUFACTURER NAME TBS		D. DATE February 1997	
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99					
ID	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Terminal Cost													
GRT								889	42	21			
BM								3181	42	76			
System Engineering/Program Mgmt								543					
Fielding								141					
System Test								213					
TOTAL								4967					
NOTE: The Joint Program Office is contracting for the Broadcast Management (BM). PM MILSATCOM will provide funding to the JPO for the Army BM equipment.													

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE
B. APPROPRIATION / BUDGET ACTIVITY										February 1997
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment					C. P-1 ITEM NOMENCLATURE					
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY Each	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A
Ground Receive Terminal / FY 98	TBS	FP/OPT	CECOM	Jan-98	Mar-99	42	21	No	No	
REMARKS: FY97 basic contract awarded utilized funds annotated on USAF GBS JPO line.										

[illegible]

BUDGET ITEM JUSTIFICATION SHEET										DATE	February 1997
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE									
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		MOD OF IN-SVC EQUIP (TAC SAT) (BBB417)									
QUANTITY	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003			
COST (in millions)	9.5	5.4	2.0	2.0	0.3	0.3	0.3		0.4		
<p>DESCRIPTION: The Ground Mobile Forces (GMF) are those components of the Army, Navy, Air Force, Marine Corps, Special Operations Forces and Joint Communications Support Element engaged in land, tactical air combat and amphibious operations ranging from single-service crisis missions to mutually supportive joint-service combat scenarios. This program will provide a tactical satellite communications capability to meet critical GMF Command, Control and Communication (C3) needs not satisfied by conventional terrestrial communications systems.</p> <p>Mod Of In-Svc Equipment (TACSAT) funds the upgrades to Army tactical satellite communications equipment.</p> <p>JUSTIFICATION: The FY 98/99 funds will be used to procure and field Lightweight High Gain X-Band Antennas (LHGXA). The increased gain and mobility of the LHGXA will allow greater access to Defense Satellite Communications Systems (DSCS). This is in line with the continued upgrades of Army tactical satellite communications equipment.</p>											

BUDGET ITEM JUSTIFICATION SHEET		DATE
APPROPRIATION / BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE	February 1997
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		MOD OF IN-SVC EQUIP (TAC SAT) (BBB417)

[illegible]

MODIFICATION INSTALLATION SUMMARY									
									Date February 1997
(TOA, Dollars in Millions)									
System/Modification	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	TOTAL
<i>No P3a Set for modification*</i>									
MOD OF IN-SVC EQUIP (TAC SAT)									
BB8417	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Multi-Channel Initial System (MCIS)									
Totals	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
* Installation of antennas not required.									

INDIVIDUAL MODIFICATION		Date	February 1997
MODIFICATION TITLE:		Multi-Channel Initial System (MCIS) 1-84-07-0019	
MODELS OF SYSTEMS AFFECTED:		AN/TSC-85B AND AN/TSC-93B Tactical Satellite (TACSAT) Terminals.	
DESCRIPTION / JUSTIFICATION:		<p>This Materiel Change Improvement Program consists of upgrades to improve performance of the Super High Frequency (SHF) Multichannel Initial System (MCIS) Terminals, AN/TSC-85B and AN/TSC-93B. The technical and operational requirements for the Army GMF program have been established by the Satellite Communications Qualitative Materiel Requirements (QMR) and the Ground Mobile Forces Satellite Communications (GMFSC) Program Plan as approved by the Assistant Secretary of Defense (C3I). A requirement exists for a Lightweight High Gain X-Band Antenna (LHGXA). The LHGXA is a 16 foot antenna with a G/T of 27.4DB that is capable of being set-up and torn down in 45 minutes with a two person crew. It will be used by selected Divisions, Echelons Above Corps and contingency signal units to augment the AS-3036 eight foot antenna. Funding in FY 98/99 will procure, manage, and field LHGXA's. The increased gain and mobility of the LHGXA will allow greater access to DSCS Satellites, particularly the earth coverage antenna pattern and the fringe areas of the narrow coverage antenna patterns. This supports the Army's continued upgrades of tactical satellite communications equipment.</p>	
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:		PLANNED	ACCOMPLISHED
Preliminary Design Review:			
Critical Design Review:			
Performance Qualification Test:			No Development Required
User Test:			
Deliveries:			
First Unit Equipped:			

Installation Schedule: Multi-Channel Initial System (MCIS) 1-84-07-0019												
FY 1994		FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		February 1997
& Prior		1	2	3	4	1	2	3	4	1	2	3
Inputs												
FY 1994 & Prior												
FY 1995												
FY 1996												
FY 1997												
Outputs												
FY 1994 & Prior												
FY 1995												
FY 1996												
FY 1997												
Inputs												
FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		
1	2	3	4	1	2	3	4	1	2	3	4	Total
Inputs												
FY 1998												
FY 1999												
FY 2000												
FY 2001												
Outputs												
FY 1998												
FY 1999												
FY 2000												
FY 2001												
Remarks:												
Antenna includes trailer. No installation required.												

BUDGET ITEM JUSTIFICATION SHEET										DATE	February 1997
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE					MSE MOD IN SERVICE (BB1611)				
OTHER PROCUREMENT / Communications and Electronics Equipment		FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		
QUANTITY		0	0	0	0	0	0	0	0		
COST (in millions)		17.0	9.8	0.0	0.0	0.0	0.0	0.0	0.0		
<p>DESCRIPTION: The Mobile Subscriber Equipment (MSE) Modification in Service Line funds for high priority Echelons Corps and Below (ECB) system improvements.</p> <p>JUSTIFICATION: The ECB portion of the Area Common User System-Modernization Plan (ACUS-MP) has been moved to the ACUS MOD Program (WIN - T/T) SSN BB1600 FY 98 and beyond.</p>											

MODIFICATION INSTALLATION SUMMARY									
									Date February 1997
(TOA, Dollars in Millions)									
System/Modification	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	TOTAL
No P3a Set for modification									
MSE MOD IN SERVICE									
BB1611									
ECB Area Common User System Modernization Plan									
Totals	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
No Installation Costs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

INDIVIDUAL MODIFICATION		Date	February 1997
MODIFICATION TITLE:		ECB Area Common User System Modernization Plan 001	
MODELS OF SYSTEMS AFFECTED:	NETWORK MANAGEMENT AND CONTROL, SWITCHING, TERMINALS AND TRANSMISSION SYSTEMS		
DESCRIPTION / JUSTIFICATION:			
<p>The ACUS is an area switched communications system that is comprised of the Echelons Above Corps (EAC) Communications Network and the Echelons Corps and Below (ECB) Mobile Subscriber Equipment (MSE) System. Enhancements to systems, some unique to ECB, incorporate either through modification or redesign efforts improvements in switching, network control, transmission and subscriber terminal equipment. Enhancements within this ACUS-MP will provide future interfaces between the ECB Communications Network and Joint or Combined Forces.</p>			
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:			
N/A		PLANNED	ACCOMPLISHED
<p>Preliminary Design Review:</p> <p>Critical Design Review:</p> <p>Contractor Test and Evaluation:</p> <p>Development Test and Evaluation:</p> <p>Initial Operational Test and Evaluation:</p> <p>IPR Production Decision</p> <p>TDP Available:</p>			

INDIVIDUAL MODIFICATION																				
ECB Area Common User System Modernization Plan 001																				
MODIFICATION TITLE (Cont):																				
FINANCIAL PLAN: (\$ in Millions)																				
	FY 1996 and Prior Qty	FY 1996 \$	FY 1997 Qty	FY 1997 \$	FY 1998 Qty	FY 1998 \$	FY 1999 Qty	FY 1999 \$	FY 2000 Qty	FY 2000 \$	FY 2001 Qty	FY 2001 \$	FY 2002 Qty	FY 2002 \$	FY 2003 Qty	FY 2003 \$	TC Qty	TC \$	TOTAL Qty	TOTAL \$
RDT&E																				
PROCUREMENT																				
Kit Quantity																				
Installation Kits																				
Installation Kits Nonrecurring																				
Equipment																				
Equipment Nonrecurring																				
Engineering Spt-Gvt/Contr																				
Data																				
Training Equipment																				
Support Equipment																				
Other - Spares																				
Interim Contractor Support																				
Installation of Hardware																				
FY 1994 & Prior Eqpt -- Kits																				
FY 1995 Eqpt -- Kits																				
FY 1996 Eqpt -- Kits																				
FY 1997 Eqpt -- Kits																				
FY 1998 Eqpt -- kits																				
FY 1999 Eqpt -- kits																				
FY 2000 Eqpt -- kits																				
FY 2001 Eqpt -- kits																				
(FY(TC) Eqpt (xx kits)																				
Total Installation Cost																				
Total Procurement Cost		50.3		9.8																60.1

METHOD OF IMPLEMENTATION Contractor

Contract Dates: FY 1997: DEC-FEB FY 1998: VARIABLE FY 1999: 12-24 Months

Delivery Date: FY 1997: VARIABLE FY 1998: FY 1999:

Installation Schedule: ECB Area Common User System Modernization Plan 001													
FY 1996		FY 1997		FY 1998		FY 1999		FY2000		FY 2001		February 1997	
& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1
Inputs													
FY 1996 & Prior													
FY 1997													
FY 1998													
FY 1999													
Outputs													
FY 1996 & Prior													
FY 1997													
FY 1998													
FY 1999													
Inputs													
FY2000		FY 2001		FY 2002		FY 2003		FY 2002		FY 2003		FY 2003	
1	2	3	4	1	2	3	4	1	2	3	4	1	2
Outputs													
FY2000													
FY 2001													
FY 2002													
FY 2003													
Remarks:													

BUDGET ITEM JUSTIFICATION SHEET										DATE
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE								February 1997
OTHER PROCUREMENT / Communications and Electronics Equipment		COMMAND CENTER IMPROVEMENT PROG (CCIP) (BA8200)								
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		
QUANTITY	0	0	0	0	0	0	0	0	0	
COST (in millions)	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
<p>DESCRIPTION: This budget line supports Commander in Chief (CINC) requirements for command center systems and upgrades necessary to exercise effective command and control capabilities during crisis and wartime operations, including the US CINC Europe Command Center Program (ECCP) in support of CINCEUR and the Theater Automated Command and Control Information Management System (TACCIMS) in support of the Republic of Korea (ROK)/US Combined Forces Command.</p> <p>The ECCP provides essential command and control upgrades necessary for US European Command (USEUCOM) to exercise command and control of US forces in the USEUCOM Area of Responsibility (AOR) in response to National Command Authority. This program has taken on increasing significance in light of the Unified Command Plan approved by the President in April 1992, and the growing political and military activity within the AOR, such as events in Serbia, Croatia, Bosnia, Sarajevo, Somalia, and Nigeria. In addition, USEUCOM is recognized by the Joint Staff, the Defense Information Systems Agency (DISA), and the Army as an important element of the Global Command and Control System (GCCS).</p> <p>TACCIMS is the Commander in Chief/Combined Forces Command (CINC/CFC) C2 system and supports both the CFC and US Forces Korea. TACCIMS provides an automated bilingual C2 system consisting of over 450 workstations and file servers throughout the ROK and Okinawa. Another part of the TACCIMS system is the bilingual multipoint secure Video Teleconferencing System that links the major subordinate commands and the Theater Decision Support system. TACCIMS directly supports the CINC during armistice, crisis, exercise, and the prosecution of war with critical elements of information to facilitate his campaign plan implementation.</p> <p>JUSTIFICATION: There are no FY98/99 funds for this program.</p>										

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				B. WEAPON COMMAND CENTER IMPROVEMENT PROG (CCIP) (BA8200)				C. MANUFACTURER NAME		D. DATE February 1997			
OPA Cost Elements		FY 96				FY 97				FY 98				FY 99	
ID	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost		
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000		
EUCOM COMMAND CENTERS:															
System Engineering, Installation & Test	A	200	1	200											
Local Distribution System	A	552	1	552	566	1	566								
Joint Task Force (JTF) Integration	A				326	1	326								
Briefing & Display System	A	140	1	140											
TOTAL		892			892										

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)											DATE	February 1997	
B. APPROPRIATION / BUDGET ACTIVITY											C. P-1 ITEM NOMENCLATURE		
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment											COMMAND CENTER IMPROVEMENT PROG (CCIP) (BA8200)		
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A			
EUCOM COMMAND CENTERS:													
System Engineering, Installation & Test FY 96	JPL	MIPR	NASA	Mar-96	Apr-96	1	200						
Local Distribution System FY 96	JPL/GSA/SOFSA SOFSA	MIPR	NASA/GSA/SOFSA SOFSA	VAR Mar-97	VAR Jul-97	1	552	YES	NO				
FY 97		MIPR				1	566						
Joint Task Force (JTF) Integration FY 97	SOFSA	MIPR	SOFSA	Mar-97	Jul-97	1	326	YES	NO				
Briefing & Display System FY 96	JPL	MIPR	NASA	Feb-96	May-96	1	140						
REMARKS: JPL = Jet Propulsion Laboratory, Pasadena, CA NASA = National Aeronautics Space Administration GSA = General Services Agency SOFSA = Special Operations Forces Support Activity											* Multiple award dates/delivery orders throughout FY.		

BUDGET ITEM JUSTIFICATION SHEET										DATE	February 1997
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE									
OTHER PROCUREMENT / Communications and Electronics Equipment		SOUTHCOM HQ RELOCATION (BU4000)									
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003			
QUANTITY	0	0	0	0	0	0	0	0	0		
COST (in millions)	17.4	27.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
<p>DESCRIPTION: In accordance with the Panama Canal Treaty, US Army Southern Command (SOUTHCOM) Headquarters must relocate by calendar year 1999. This program supports the relocation requirement for establishment of the C4I communications infrastructure at the new headquarters location. This project will meet the requirement from the Commander-in-Chief, SOUTHCOM (CINCSO) to support mission accomplishment throughout the spectrum of warfare, during both peace and war, from crisis buildup through war termination. FY 97 funding is a continuation of the relocation effort initiated in FY 96.</p> <p>JUSTIFICATION: FY98/99 OPA funds are not required for this program.</p>											

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				B. WEAPON SOUTHCOM HQ RELOCATION (BU4000)				C. MANUFACTURER NAME				D. DATE February 1997	
OPA		FY 96				FY 97				FY 98				FY 99	
Cost Elements		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
Engineer, Furnish, Install, & Test (EFI&T) Command, Control, Communications, Computer, and Intelligence (C4I) Systems for SOUTHCOM Headquarters Relocation															
C4I Infrastructure	A	8833	VAR	VAR	17352	VAR	VAR	VAR	VAR						
UHFSATCOM Radios	A	6966	1	6966	620	1	620	620	620						
Red Switch Equipment and Installation	A	189	7	27											
Automated Message Handling System	A	1412	VAR	VAR	485	VAR	VAR	VAR	VAR						
Global Command & Control System (GCCS)	A				495	1	495	495	495						
Defense Information System Network (DISN)	A				74	1	74	74	74						
Joint Worldwide Intell Comm Sys (JWICS)	A				225	1	225	225	225						
Communications Support Processor	A				219	VAR	VAR	VAR	VAR						
COMSEC	A				440	1	440	440	440						
Matrix Switch	A				237	VAR	VAR	VAR	VAR						
Paybacks (withdrawn by ABO to payback funding required/received in FY96)	A				315	1	315	315	315						
					6488	1	6488	6488	6488						
TOTAL		17400			26950										

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)											DATE	February 1997
B. APPROPRIATION / BUDGET ACTIVITY												
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												
C. P-1 ITEM NOMENCLATURE												
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST \$000	SPECS AVAIL NOW	SPECS REV REQ'D	IF YES W/A		
Engineer, Furnish, Install, & Test (EFI&T) Command, Control, Communications, Computer, and Intelligence (C4I) Systems for SOUTHCOM Headquarters Relocation												
FY 96 *	MAN TECH	C/Other #	CECOM	Apr-96	Sep-96	VAR	VAR	YES	NO			
FY 97 *	MAN TECH	OPTION	CECOM	Dec-96	Jan-97	VAR	VAR	YES	NO			
C4I Infrastructure												
FY 96	SMPO	C/FP	Corps of Engineers	Apr-96	Feb-97	1	6966					
FY97	SMPO	C/FP	Corps of Engineers	Nov-96	Feb-97	1	620					
UHFSATCOM Radios												
FY 96	HARRIS	C/FP	CECOM	Jun-96	Jun-97	7	27					
Red Switch Equipment and Installation												
FY 96 *	ELECTRO SPACE, INC	C/FP	DISA	May-96	Jan-97	VAR	VAR	YES	NO			
FY 97 *	ELECTRO SPACE, INC	OPTION	DISA	Nov-96	Jan-97	VAR	VAR	YES	NO			
Automated Message Handling System												
FY 97	TELOS	C/FP	DITCO	Feb-97	Mar-97	1	495	YES	NO			
Global Command & Control System (GCCS)												
FY 97	LOCKHEED - MARTIN	C/CPAF	USAISSAA	Feb-97	Mar-97	1	74	YES	NO			
Defense Information System Network (DISN)												
FY 97	NET FEDERAL, INC	C/FP	DITCO	Feb-97	Mar-97	1	225	YES	NO			
REMARKS:												
# Other = Time & materials.												
C4I = Command, Control, Communications, Computer, & Intelligence												
SMPO, Memphis, TN												
Harris Corp, Melbourne, FL												
Rockwell, Dallas, TX												
Electro Space, Inc., Fort Worth, TX												
Net Federal, Inc, Scott Air Force Base IL												
* Site specific.												
MAN TECH, Fairfax, VA												
TELOS, Shrewsbury, NJ												
Lockheed - Martin, Springfield, VA												
DITCO = Defense Information Technical Contracting Office												
DISA = Defense Information Systems Agency												
USAISSAA = US Army Information Systems Selection and Acquisition Agency												

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE	February 1997
B. APPROPRIATION / BUDGET ACTIVITY											
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment											
C. P-1 ITEM NOMENCLATURE											
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY Each	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQ'D	SOUTHCOM HQ RELOCATION (BU4000)	
Joint Worldwide Intell Comm Sys (JWICS)	VAR *	C/FP	VAR *	Feb-97	Apr-97	VAR	VAR	YES	NO		
FY 97 **											
Communications Support Processor	Sterling Software	C/FP	ESC	Feb-97	Apr-97	1	440	YES	NO		
FY 97											
COMSEC	VAR**	IDIQ	USCCSLA	Feb-97	Apr-97	VAR	VAR	YES	NO		
FY97											
Matrix Switch	General Signal	C/FP	CECOM	Feb-97	Apr-97	1	315	YES	NO		
FY97											
REMARKS:											
Houston Associates, Leavenworth, KS Sterling Software, Omaha, Nebraska General Signal Networks, Mt. Laurel, NJ DISA = Defense Information Systems Agency DITCO = Defense Information Technical Contracting Office ESC = Electronics Systems Center VAR * = Contract with Net Federal, Inc. and SIGCOM through DISA/DECCO, NSA, and DIA. VAR** = Motorola Gov't Systems Group, Scottsdale, AZ; Allied Signal Aerospace, Baltimore, MD ** Site specific.											

BUDGET ITEM JUSTIFICATION SHEET										DATE
APPROPRIATION / BUDGET ACTIVITY										February 1997
OTHER PROCUREMENT / Communications and Electronics Equipment										
P-1 ITEM NOMENCLATURE										
ARMY GLOBAL CMD & CONTROL SYS (AGCCS) (BA8250)										
QUANTITY	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		
	0	0	0	0	0	0	0	0		
COST (in millions)	15.3	20.4	17.3	23.8	13.6	9.0	6.7	6.7		

DESCRIPTION: The Army Global Command and Control System (AGCCS) will provide the Army's interface to Joint Staff Global Command and Control System (GCCS) program. AGCCS is being implemented in accordance with the GCCS concept of Defense Information Infrastructure Common Operating Environment (DII COE) and the Army Battle Command System (ABCS) Operational Requirements Document (ORD). The AGCCS is the integration of software, hardware and communication architecture supporting strategic and tactical environments. The software development requirements for AGCCS will be satisfied through a single systems engineering and integration contract which was awarded in December 1994. The intent is to field an integrated command and control (C2) system that provides standard, modular, system support and application software support capable of supporting a "tailored" set of functional applications and compatible, integrated exchange of data both horizontally and vertically throughout the Army hierarchy. This will accommodate a flexible, interoperable C2 system that can be tailored for various levels of command and will ensure connectivity. AGCCS will support operations during peace as well as war including contingency and natural disaster operations. It will support major Army commands (MACOMS), Army Commanders in Chiefs (CINCs), Army Commands and Components, and Army elements within the Pentagon. The AGCCS will support all staff sections within a headquarters, and all phases of conflict.

JUSTIFICATION: FY 98/99 funds will support the procurement and fielding of AGCCS at all Army-managed worldwide command and control sites. Fielding of AGCCS is mandatory in order for the Army to remain in lock step with GCCS milestones, and support the Army Battle Command System.

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				B. WEAPON ARMY GLOBAL CMD & CONTROL SYS (AGCCS) (BA8250)				C. MANUFACTURER NAME Various				D. DATE February 1997			
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99		FY 96		FY 97		FY 98		FY 99	
ID	CD	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	
1. Sun Enterprise 4000	A	572	2	286	286	286	1	286	286	3149	11	286	4008	4008	14	286	
2. Sun Sparc 20 (V1 Theater WAN Server)		1307	30	44													
3. Sun Sparc 20 (V2 Theater LAN Server)		260	5	52	1080	54	20	54	971	18	54	1080	1080	20	54	54	
4. Sun Sparc 20 (V1 Theater LAN Server)		4356	143	30					1178	35	34	1043	1043	31	34	34	
5. Sun Sparc 20 (V1 Application Server)		868	23	38													
6. PC (Pentium Class) User Workstations																	
7. Bill of Material (BOM)*		2115			2451	4	570	4	1613	375	4	2688	2688	625		4	
8. Fielding		826			3384				3976			4183	4183				
9. Technical Insertion					2658				2000			2100	2100				
10. Informix Program License		4950			932				2876			6562	6562				
11. DII COE Compliant S/W					9646				1552			2108	2108				
TOTAL		15254			20437				17315			23772	23772				
* Site-unique hardware required to support installation and fielding. Includes LAN cables, racks, routers, etc.																	

* Site-unique hardware required to support installation and fielding. Includes LAN cables, racks, routers, etc.

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE
B. APPROPRIATION/ BUDGET ACTIVITY										February 1997
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment										
C. P-1 ITEM NOMENCLATURE										
ARMY GLOBAL CMD & CONTROL SYS (AGCCS) (BA8250)										
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQD	IF YES W/A
1. Sun Enterprise 4000	Sun Microsystems, Arlington, VA	IDIQ	DISA	Mar-96	Aug-96	2	286272	YES		
FY 96	Sun Microsystems, Arlington, VA	IDIQ	DISA	Feb-97	Apr-97	1	286272	YES		
FY 97	Sun Microsystems, Arlington, VA	IDIQ	DISA	Feb-98	Apr-98	11	286272	YES		
FY 98	Sun Microsystems, Arlington, VA	IDIQ	DISA	Feb-99	Apr-99	14	286272	YES		
FY 99	Sun Microsystems, Arlington, VA	IDIQ	DISA	Feb-99	Apr-99	14	286272	YES		
2. Sun Sparc 20 (V1 Wan Server)	GTE, Taunton, MA	C/OPTION	CECOM	Feb-96	Jun-96	30	43550	YES		
FY 96	GTE, Taunton, MA	C/OPTION	CECOM	Feb-96	Jun-96	30	43550	YES		
3. Sun Sparc 20 (V2 LAN Server)	GTE, Taunton, MA	C/OPTION	CECOM	Feb-96	Jun-96	5	51957	YES		
FY 96	GTE, Taunton, MA	C/OPTION	CECOM	Feb-96	Jun-96	5	51957	YES		
FY 97	GTE, Taunton, MA	C/OPTION	CECOM	Feb-97	Jun-97	20	53955	YES		
FY 98	GTE, Taunton, MA	C/OPTION	CECOM	Feb-98	Jun-98	18	53955	YES		
FY 99	GTE, Taunton, MA	C/OPTION	CECOM	Feb-99	Jun-99	20	53955	YES		
4. Sun Sparc 20 (V1 LAN Server)	GTE, Taunton, MA	C/OPTION	CECOM	Feb-96	Jun-96	143	30465	YES		
FY 96	GTE, Taunton, MA	C/OPTION	CECOM	Feb-96	Jun-96	143	30465	YES		
FY 98	GTE, Taunton, MA	C/OPTION	CECOM	Feb-98	Jun-98	35	33647	YES		
FY 99	GTE, Taunton, MA	C/OPTION	CECOM	Feb-99	Jun-99	31	33647	YES		
5. Sun Sparc 20 (V1 Application Server)	GTE, Taunton, MA	C/OPTION	CECOM	Feb-96	Jun-96	23	37755	YES		
FY 96	GTE, Taunton, MA	C/OPTION	CECOM	Feb-96	Jun-96	23	37755	YES		
6. PC (Pentium Class)	Nexar, Chantilly, VA	IDIQ	GSA/GTSI	Feb-97	Apr-97	570	4300	YES		
FY 97	Nexar, Chantilly, VA	IDIQ	GSA/GTSI	Feb-97	Apr-97	570	4300	YES		
FY 98	Nexar, Chantilly, VA	IDIQ	GSA/GTSI	Feb-98	Apr-98	375	4300	YES		
FY 99	Nexar, Chantilly, VA	IDIQ	GSA/GTSI	Feb-99	Apr-99	625	4300	YES		

BUDGET ITEM JUSTIFICATION SHEET							DATE	February 1997
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE						
OTHER PROCUREMENT / Communications and Electronics Equipment		ARMY DATA DISTRIBUTION SYSTEM (ADDS) (BU1400)						
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY	44.6	67.9	57.2	55.7	42.9	40.6	39.5	50.5
<p>DESCRIPTION: The Army Data Distribution System (ADDS) is a Command, Control, and Communication (C3I) network consisting of the Enhanced Position Location Reporting System (EPLRS), Near Term Digital Radio (NTDR) and the Army portion of the Joint Tactical Information Distribution System (JTIDS). EPLRS is a direct outgrowth of the Army/United States Marine Corps (USMC) Position Location Reporting System (PLRS) and provides battlefield commanders combat information on the position of their forces in addition to supporting the majority of the data communications needs of the multitude of computers to be fielded as part of the Army Tactical Command and Control System (ATCCS) and battlefield digitization efforts. JTIDS supports the unique data communications needs of very high volume users with inter-service requirements. JTIDS supports requirements for the distribution of processed information via LINK-16 Protocols and Waveforms. The NTDR is a communication system with an open data bus which allows for adding or changing of modules for additional functionality, and system architecture that provides greater data transmission capability. The Army will continue to procure JTIDS until the Multi-Functional Information Distribution System (MIDS), a more affordable terminal, is developed and tested. JTIDS and MIDS are joint/international programs representing all Services and Allied force requirements.</p> <p>The Army is fielding ATCCS to automate and increase the effectiveness of the five Battlefield Functional Areas (BFA): Maneuver Control, Fire Support, Air Defense, Intelligence, and Combat Support. ADDS is essential to support tactical operations on the automated battlefield with reliable, real-time, secure, jam resistant data communications and position location capabilities. It has been designed specifically to meet the data communication requirements of emerging computer and sensor systems.</p> <p>JUSTIFICATION:</p> <p>EPLRS: The FY 98 program will allow the Army to procure approximately 304 additional VHSIC SIP Enhanced PLRS User Unit (VS-EPUU) Radio Sets (RS) and 6 downsized Net Control Stations (NCS-E(D)s). The FY 98 program retrofits the 1816 EPUUs to SIP configuration. Additionally, the FY 98 and FY 99 budget will complete the fielding of prior year hardware procurements to contingency Corps units. The FY 98 and FY 99 budget will also provide for New Equipment Training (NET), integration, life cycle software engineering and program management support.</p> <p>NTDR: The FY 99 program will allow the Army to set up the NTDR production facility, procure 20 NTDRs, perform first article test and provide program management support.</p> <p>LINK-16: The FY98 program procures 11 JTIDS Class 2M terminals, peculiar support equipment, and total package fielding.</p>								

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE
B. APPROPRIATION / BUDGET ACTIVITY										February 1997
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment										
C. P-1 ITEM NOMENCLATURE										
ARMY DATA DISTRIBUTION SYSTEM (ADDS) (BU1400)										
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST \$000	SPECS AVAIL NOW	SPECS REV REQ'D	IF YES W/A
Army Data Distribution System (ADDS)										
Enhanced Position Location Reporting System (EPLRS): Hardware VS-EPUU RS *										
FY 96	Hughes Aircraft, Forest, MS	SS/FFP	CECOM	Mar-96	Aug-97	325	41	NO	YES	Jun-97
FY 97	Hughes Aircraft, Forest, MS	SS/FFP	CECOM	May-97	Jul-98	1285	37	NO	YES	Jun-97
FY 98	Hughes Aircraft, Forest, MS	SS/FFP	CECOM	Dec-97	Jul-99	304	43	NO	YES	Jun-97
Hardware NCS-E(D)										
FY96	CECOM/Command&Ctrl Sys Integr Dir	MIPR	CECOM	Nov-95	Mar-97	7	811	YES	NO	
FY97	CECOM/Command&Ctrl Sys Integr Dir	MIPR	CECOM	Mar-97	May-98	5	881	YES	NO	
FY98	CECOM/Command&Ctrl Sys Integr Dir	MIPR	CECOM	Nov-97	Jan-99	6	858	YES	NO	
Near Term Digital Radio (NTDR): Hardware NTDR RS										
FY99	To Be Selected	TBD/FP	CECOM	May-99	Aug-00	20	45	NO	YES	Sep-98
LINK-16: Hardware Link-16										
FY98	GEC, Totowa, NJ	SS/FFP	Hanscom AFB	Apr-98	Jan-00	11	640	YES	NO	
FY99	To Be Selected	C/FFP	SPAWARS	Apr-99	Jan-01	36	216	NO	YES	Sep-98
REMARKS:										
* The VS-EPUU Radio Set consists of the VHSIC SIP Enhanced PLRS User Unit, User Readout Device, installation kits and power adapter.										

FY 98 / 99 BUDGET PRODUCTION SCHEDULE										P-1 ITEM NOMENCLATURE										ARMY DATA DISTRIBUTION SYSTEM (ADDS) (BU1400)										DATE										February 1997										L																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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BUDGET ITEM JUSTIFICATION SHEET										DATE	February 1997
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE					MOBILE SUBSCRIBER EQUIP (MSE) (BB1610)				
OTHER PROCUREMENT / Communications and Electronics Equipment		FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		
QUANTITY											
COST (in millions)	3.4		6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
<p>DESCRIPTION:</p> <p>The Mobile Subscriber Equipment (MSE) Communications System is a fielded area radio communication system providing Corps and Division, mobile and stationary users the equivalent of automatic secure dial telephone service for both voice and data. MSE provides uninterrupted communication which enables commanders and staffs to exercise command and control from both mobile platforms and Command Posts which may be dispersed or massed, and requires frequent relocation due to enemy threat and conduct of battle.</p> <p>JUSTIFICATION:</p> <p>The Echelons Corps and Below (ECB) portion of the Area Common User Systems - Modernization Plan (ACUS-MP) has been moved to the Joint Tactical Area Comms Sys line SSN BA1010 FY 98 and beyond.</p>											

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		B. WEAPON MOBILE SUBSCRIBER EQUIP (MSE) (BB1610)		C. MANUFACTURER NAME GTE, Taunton, MA		D. DATE February 1997	
OPA		FY 96		FY 97		FY 98		FY 99	
Cost Elements		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each
1. PROJ MANAGEMENT ADMIN		1927			2000				
2. GOVT/CONT ENGINEERING		1441			3000				
3. AREA COMMON USER SYSTEMS- MODERNIZATION PLAN (ACUS-MP) (TRAINING DEVICE UPGRADE)					1390				
TOTAL		3368			6390				

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE
B. APPROPRIATION / BUDGET ACTIVITY										February 1997
C. P-1 ITEM NOMENCLATURE										
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY Each	MOBILE SUBSCRIBER EQUIP (MSE) (BB1610)			IF YES W/A
							UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQ'D	
1. AREA COMMON USER SYSTEMS- MODERNIZATION PLAN (ACUS - MP) TDU 1997	GTE TAUNTON, MA	SS/CPAF	CECOM	Feb-97	Jun-98	N/A	N/A	YES		
REMARKS: Quantity/Unit Cost not applicable. Systems are being procured as software enhancements/engineering change proposals (ECP's).										

BUDGET ITEM JUSTIFICATION SHEET										DATE	February 1997
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE								SINGGARS FAMILY (BW0006)	
OTHER PROCUREMENT / Communications and Electronics Equipment		FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		
QUANTITY		0	0	0	0	0	0	0	0		
COST (in millions)		357.2	319.6	290.2	13.5	13.9	0.0	0.0	0.0		
<p>DESCRIPTION:</p> <p>The Single Channel Ground and Airborne Radio System (SINGGARS) is the VHF-FM Radio Communications System providing the primary means of command and control for infantry, armor, artillery, and Army aviation units. It possesses capabilities and improvements over the 1960 technology radios it replaces in manpack, vehicular, and airborne configurations. Its Frequency-Hopping jam resistant capability will offset the current threat of jamming techniques used against the existing family of fixed frequency radios. SINGGARS continues its evolutionary development with the fielding of the SINGGARS System Improvement Program (SIP) radio. The SINGGARS SIP radio provides for enhanced data and voice communications while using commercial Internet Protocols within an Internet Controller. The SINGGARS SIP radio forms the linchpin of the Tactical Internet and is a major contributor to the Army digitization effort. It will assist commanders in conducting the battle on the digitized battlefield. SINGGARS is used in such systems as PATRIOT, M1A2 Tank Improvement Program, Paladin, and Longbow APACHE.</p> <p>JUSTIFICATION</p> <p>The FY 98 program will provide 28,555 ground radios, airborne retrofit kits and ancillary devices for fielding FORSCOM units with SINGGARS and Force Package 1 and 2 and selected Force Package 3 units with SINGGARS SIP. Funding in FY 99 and out has been adjusted to support completion of the fielding program.</p>											

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				B. WEAPON SINCGARS - AIRBORNE (J30500)				C. MANUFACTURER NAME ITT, Ft Wayne, IN				D. DATE February 1997			
OPA Cost Elements		FY 96				FY 97				FY 98				FY 99			
ID	CD	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000
1. ITEM HARDWARE AIRBORNE HARDWARE	A	11813	481	24559	11552	593	19481	8931									
2. HARDWARE KITS		155			158			161									
3. GOVERNMENT ENGINEERING		398			392			147									
4. DATA																	
TOTAL		12366			12102			9239									

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE
B. APPROPRIATION / BUDGET ACTIVITY										February 1997
C. P-1 ITEM NOMENCLATURE										
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment										
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY Each	UNIT COST \$	SPECS AVAIL NOW	SPEC REV REQD	IF YES W/A
1. ITEM HARDWARE AIRBORNE HARDWARE FY 96 FY 97	ITT FT. WAYNE IN ITT FT. WAYNE IN	SS/FFP/OPT SS/FFP/OPT	CECOM CECOM	May-96 Mar-97	Jun-97 Jun-98	481 593	24559 19481	Yes Yes	No No	
REMARKS: FY 98 Program is for airborne retrofit kits.										

FY 98 / 99 BUDGET PRODUCTION SCHEDULE										P-1 ITEM NOMENCLATURE										SINGGARS - AIRBORNE (J30500)										DATE										February 1997																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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FY 98 / 99 BUDGET PRODUCTION SCHEDULE										SINGARS - AIRBORNE (J30500)										February 1997									
P-1 ITEM NOMENCLATURE										DATE																			

OPA Cost Analysis			A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			B. WEAPON SINCGARS - GROUND (B00500)			C. MANUFACTURER NAME SEE P-5A			D. DATE February 1997		
OPA Cost Elements			FY 96			FY 97			FY 98			FY 99		
ID	CD		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	\$000	Each	\$
1. HARDWARE ITT	A		123814	12802	9671									
HARDWARE GD			105626	10514	10046									
HARDWARE TBS						233159	29500	7904	226282	28555	7924			
2. ENG SPT CONTRACTS			22449			14141			8250					
3. ECP			11015			6416			1434					
4. GOVT ENGINEERING			9805			6948			5498					
5. PROJECT MGT ADMINISTRATION			3800			2030			1905			557		
6. OTHER HARDWARE			40187			17431			24857					
7. FIELDING														
NEW EQUIPMENT TRAINING			5231			4132			4800			4900		
TOTAL PACKAGE FIELDING			9155			9732			7899			8050		
TOTAL			331082			293989			280925			13507		

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)											
B. APPROPRIATION / BUDGET ACTIVITY		OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				C. P-1 ITEM NOMENCLATURE					DATE
		SINGARS - GROUND (B00500)									February 1997
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY Each	UNIT COST \$	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A	
HARDWARE ITT FY 96	ITT FT WAYNE IN	C/FP/IF	CECOM	Apr-96	Jun-97	12802	9671	YES	NO		
HARDWARE GD FY 96	GD TALLAHASSEE FL	C/FP/IF	CECOM	Apr-96	Aug-97	10514	10046	YES	NO		
HARDWARE TBS FY 97	TO BE SELECTED	C/FP	CECOM	Apr-97	Jun-98	29500	7904	YES	NO		
FY 98	TO BE SELECTED	C/FP/OPT	CECOM	Apr-98	Jun-99	28555	7924	YES	NO		
REMARKS: FY 97 DELIVERIES ARE NOTIONALLY SHOWN BEGINNING IN JUNE 1998. ACTUAL DELIVERY SCHEDULE WILL DEPEND ON THE CONTRACTOR SELECTED.											

FY 1998 / FY 1999 BUDGET PRODUCTION SCHEDULE										P-1 ITEM NOMENCLATURE										SINGCAPS GROUND (B00500)										DATE										February 1997										L																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
COST ELEMENTS										M F R										M F R										M F R										M F R										M F R										M F R										M F R										M F R										M F R										M F R										M F R										M F R										M F R										M F R										M F R										M F R										M F R										M F R										M F R										M F R										M F R										M F R										M F R										M F R										M F R										M F R										M F R										M F R										M F R										M F R										M F R										M F R										M F R										M F R										M F R										M F R										M F R										M F R										M F R										M F R										M F R										M F R										M F R										M F R										M F R										M F R										M F R										M F R										M F R										M F R										M F R										M F R										M F R										M F R										M F R										M F R										M F R										M F R										M F R										M F R										M F R										M F R										M F R										M F R										M F R										M 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OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				B. WEAPON BATTLEFIELD ELECTRONIC COMM SYS (BECS) (Z16800)				C. MANUFACTURER NAME SEE P-5A		D. DATE February 1997	
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99					
	ID	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
1. DATA TRANSFER DEVICE	A	1239	1575	1	9453	12012	1						
2. GOV'T ENGINEERING		609			902								
3. DOCUMENTATION		308			438								
4. FIELDING		329			527								
5. LRIP DTD UPGRADE		9031			1114	85	13						
6. PRODUCTION DTD UPGRADE		2189			1105								
7. CONTRACTOR ENGINEERING													
8. CHS UPGRADE WORKSTATION													
TOTAL		13705			13539								
QTYS HAVE BEEN ADJUSTED TO REFLECT CURRENT PROGRAM PLANNING.													

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE
B. APPROPRIATION / BUDGET ACTIVITY										February 1997
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment										
C. P-1 ITEM NOMENCLATURE										
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY Each	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A
1. DATA TRANSFER DEVICE										
FY 96	ALLIED SIGNAL, TOWSON MD	C/FP/OPT NSA		Jun-96	May-97	VAR	VAR	YES	NO	
FY 97	ALLIED SIGNAL, TOWSON MD	C/FP/OPT NSA		Feb-97	Jan-98	VAR	VAR	YES	NO	
2. CHS UPGRADE WORKSTATION *										
FY 97	GTE, TAUNTON MA	C/FP/OPT CECOM		Feb-97	Feb-98	85	13	YES	NO	

REMARKS: * Commercial off the Shelf (COTS) hardware procured on the CHS contract.

BUDGET ITEM JUSTIFICATION SHEET										DATE	February 1997
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE									
OTHER PROCUREMENT / Communications and Electronics Equipment		JOINT TACTICAL AREA COMMS SYS (BA1010)									
QUANTITY	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003			
COST (in millions)	44.3	44.1	10.7	10.1	9.9	8.7	10.4	10.8			
<p>DESCRIPTION:</p> <p>The Joint Tactical Area Communications System (JTACS) line supports the planned and on going modifications to the Area Common User System (ACUS) and its migration to the Army's Warfighter Information Network (WIN) systems architecture. The ACUS is an area switched communications system that is comprised of the EAC Comm Network, which evolved from the original Tri-Service Tactical Communications (TRI-TAC) concept and the Echelons Corps and Below (ECB) Mobile Subscriber Equipment System. The WIN is a total information system architecture that supports requirements of the Digitized Force XXI. WIN is the architecture that will seamlessly link our diverse information resources into a network Army warfighters can use on the 21st century's digitized battlefield.</p> <p>JUSTIFICATION:</p> <p>FY 98 / 99 funding continues to support the Area Common User System - Modernization Plan (ACUS-MP). This support includes Project Management Administration to support the day-to-day operations of the Project Manager Office, which includes salaries, travel and training in support of all existing and anticipated contracts; Production Engineering to provide for the necessary government matrix personnel in direct support of the above mission; and Contractor Engineering support to provide support to the Project Manager of a type not available within either Core or Matrix assets. The Army will continue to modernize the area common user system in FY 98 and FY 99 and transition to the Warfighter Information Network (WIN) to capitalize on advances made in information technology. WIN will provide bandwidth-on-demand switching, improved wide band radios and fiber optic cable required to increase communication interoperability, reliability and capacity. These improvements are required to support digitization of the battlefield and provide for increased user services by leveraging advances in commercial technology.</p>											

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				B. WEAPON JOINT TACTICAL AREA COMMS SYS (BA1010)				C. MANUFACTURER NAME See P-5A		D. DATE February 1997	
ID	CD	FY 96		FY 97		FY 98		FY 99		TotalCost	UnitCost	Qty	UnitCost
		TotalCost	Qty	UnitCost	TotalCost	UnitCost	TotalCost	UnitCost	TotalCost				
		\$000	Each	\$000	\$000	\$000	\$000	\$000	\$000	\$000	\$000	Each	\$000
1. PROJ MANAGEMENT ADMIN	-	2399			1981		4154		3998				
2. ENGINEERING SUPPORT GOVERNMENT/CONTRACTOR	-	2028			4704		6530		6149				
3. FIELDING/RETROFIT	-	1463											
4. AREA COMMON USER SYSTEM- MODERNIZATION PLAN (ACUS-MP)	A	10020			16199								
5. DOWNSIZE PROGRAM	A	24337			17400								
6. QEAM	A	4070	2000	2	3800		10684		10147				
TOTAL		44317			44084								

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										
B. APPROPRIATION / BUDGET ACTIVITY					DATE		February 1997			
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment					C. P-1 ITEM NOMENCLATURE					
JOINT TACTICAL AREA COMMS SYS (BA1010)										
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQD	IF YES W/A
1. AREA COMMON USER SYS-MODERNIZATION PLAN (ACUS-MP) 1996	GTE, TAUNTON MA	SS/OPT	CECOM	May-96 Jun-96 Oct-96	May-97 Jun-97 Jun-98	N/A	N/A	YES		
1997 ATM, NMT, ESOP	GTE, TAUNTON MA	SS/OPT	CECOM	Feb-97 Mar-97	Jun-98 Mar-98	N/A	N/A	YES		
2. DOWNSIZE PROGRAM 1996 HMDA, D/S CSCE, SSS, TSM-210	LAGUNA IND, ALBUQUERQUE NEW MEXICO	SS/FP	CECOM	May-96 thru Sep-96 Nov-96 thru May-97	May-97 thru Sep-97 Nov-97 thru May-98	N/A	N/A	YES		
1997 HMDA, D/S CSCE	LAGUNA IND, ALBUQUERQUE NEW MEXICO	SS/FP	CECOM	Jan-97 thru Jun-97	Jan-98 thru Jun-98	N/A	N/A	YES		
3. QUICK ERECT ANTENNA MAST (QEAM) 1996	TRI EX, VISALIA CA	SS/FP	CECOM	Sep-96	Jun-97	2000	2	YES		
1997	TRI EX, VISALIA CA	SS/FP	CECOM	Mar-97 Jun-97	Mar-98 Jun-98	N/A N/A	N/A N/A	YES YES		
REMARKS: Quantity/Unit Cost not applicable for ACUS-MP and Downsize Programs. Systems are being procured as software enhancements/engineering change proposals/non-recurring engineering efforts and studies. QEAM award in FY 97 is for engineering change proposals to correct deficiencies found during user test and Task Force XXI.										

BUDGET ITEM JUSTIFICATION SHEET										DATE
APPROPRIATION / BUDGET ACTIVITY										February 1997
OTHER PROCUREMENT / Communications and Electronics Equipment										
P-1 ITEM NOMENCLATURE										
ACUS MOD PROGRAM (WIN - T/T) (BB1600)										
QUANTITY	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		
COST (in millions)	11.3	10.0	82.4	74.8	116.4	119.1	156.5	104.8		
<p>DESCRIPTION:</p> <p>The ACUS MOD PROGRAM (WIN-T/T) encompasses the ongoing and planned modifications to the Area Common User System (ACUS) and supports its migration to the Army's Warfighter Information Network (WIN) systems architecture. The ACUS is an area switched communications system that is comprised of the EAC Comm Network, which evolved from the original Tri-Service Tactical Communications (TRI-TAC) concept and the Echelons Corps and Below (ECB) Mobile Subscriber Equipment System. The WIN is a total information system architecture that supports the requirements of the Digitized Force XXI. WIN is the architecture that will seamlessly link our diverse information resources into a network the Army warfighters can use on the 21st century's digitized battlefield. The components of the terrestrial portion of WIN are (A) The Division Slice is the engineering effort to prove out the institutional upgrade of the legacy area common user system switches with Asynchronous Transfer Mode (ATM) (B) The Switch Modernization procures/fields this capability throughout the Army (C) Fiber Optic cable is a replacement for coaxial cable. (D) The Radio Modernization provides the increased transmission pipes between switches to move voice, data, video, collaborative planning, etc. on the digitized battlefield. (E) Wireless Local Area Network provides connectivity to the Tactical Packet Network for applications requiring increased mobility and dispersion. (F) Battlefield Video Teleconferencing (BVTC) provides a single standard video terminal on the battlefield. (G) Secure Terminal Equipment (STE) is the replacement for the wireline KY-68. (H) Remote Access Unit Range Extension doubles the range for the current mobile telephone. (I) Tactical Internet Manager provides Wide Area Network management and services for the brigade and below portion of the tactical internet. (J) Defense Message Switching (DMS) extension into the tactical area. Also included are spares to support all upgrades and associated upgrades to the Training Devices.</p> <p>JUSTIFICATION:</p> <p>FY 98 / 99 continues the Area Common User System-Modernization Plan (ACUS-MP) and provides for the necessary production / contractor engineering support. The Army will continue to modernize the area common user system in FY 98 and FY 99 and transition to the Warfighter Information Network (WIN) to capitalize on advances made in information technology. WIN will provide bandwidth-on-demand switching, improved wide band radios and fiber optic cable to increase communication interoperability, reliability and capacity. The current funding stream also supports the fielding of Force Package 1 (FP1) Units and a portion of a Force Support Package (FSP) with WIN by FY 04. A FP and corresponding slice of a FSP will be fielded every three years thereafter.</p>										

MODIFICATION INSTALLATION SUMMARY									
									Date February 1997
(TOA, Dollars in Millions)									
System/Modification	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	TOTAL
<i>No P3a Set for modification</i>									
MOD OF IN-SVC EQUIP (EAC COMM)									
BB1600									
EAC Area Common User System Modernization Plan									
Totals	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
No Installation Costs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

INDIVIDUAL MODIFICATION		Date	February 1997
MODIFICATION TITLE:		EAC Area Common User System Modernization Plan 001	
MODELS OF SYSTEMS AFFECTED:		NETWORK MANAGEMENT AND CONTROL, CIRCUIT SWITCHING, DATA SWITCHING, TERMINALS AND TRANSMISSION SYSTEMS	
DESCRIPTION / JUSTIFICATION:		<p>The ACUS is an area switched communication system that is comprised of the Echelons Above Corps (EAC) Communications Network and the Echelons Corps and Below (ECB) Mobile Subscriber Equipment (MSE) System. Ongoing and planned modifications to the ACUS will support its migration to the Army's Warfighter Information (WIN) systems architecture. The WIN is a total information system architecture that supports the requirements of the Digitized Force XXI. WIN is the architecture that will seamlessly link the diverse information resources into a network the Army warfighters can use on the 21st century's digitized battlefield.</p>	
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:		N/A	
Examples		<div> <div>PLANNED</div> <div>ACCOMPLISHED</div> </div>	
Preliminary Design Review:			
Critical Design Review:			
Contractor Test and Evaluation:			
Development Test and Evaluation:			
Initial Operational Test and Evaluation:			
IPR Production Decision			
TDP Available:			

BUDGET ITEM JUSTIFICATION SHEET										DATE	February 1997
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE									
OTHER PROCUREMENT / Communications and Electronics Equipment		TAC RADIO (BA1205)									
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY2002	FY 2003			
QUANTITY	423	1000									
COST (in millions)	24.0	35.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
<p>DESCRIPTION: The Single Channel Ground and Airborne Radio System (SINGARS) uses Frequency Hopping as an electronic counter-countermeasure (ECCM) mode of operation. The TAC Radio (Frequency Hopping Multiplexer) will allow up to four very high frequency -modulation (VHF-FM) radios in the ECCM mode to operate using one mobile or stationery antenna system. It will improve the physical profile and reduce setup and teardown time for command post antenna and reduce cosite interference.</p> <p>JUSTIFICATION: The FY 97 program of 1000 units supports Force Packages 1 and 2, and improves survivability by decreasing targetability and detectability, as well as reducing electromagnetic interference and placement/displacement times.</p>											

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				B. WEAPON TAC RADIO (BA1205)		C. MANUFACTURER NAME XETRON CINCINNATI, OH		D. DATE February 1997	
OPA Cost Elements		FY 96				FY 97		FY 98		FY 99	
		TotalCost	Qty	UnitCost	TotalCost	UnitCost	Qty	TotalCost	UnitCost	TotalCost	Qty
		\$000	Each	\$	\$000	\$	Each	\$000	\$	\$000	Each
HARDWARE		13904	500	27808	26920	1043	25810				
NON RECURRING PRODUCTION		6733			1695						
ENGINEERING CHANGES		1204			5518						
DATA		869			202						
CONTRACTOR ENGINEERING		947			968						
GOVERNMENT ENGINEERING		371			396						
TOTAL		24028			35699						
NOTE: PROCUREMENT QUANTITIES SHOWN ARE ACTUALS FOR FY 96 AND PLANNED FOR FY 97.											

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE
B. APPROPRIATION / BUDGET ACTIVITY										February 1997
C. P-1 ITEM NOMENCLATURE										
TAC RADIO (BA1205)										
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY Each	UNIT COST \$	SPEC AVAIL NOW	SPEC REV REQ'D	IF YES W/A
HARDWARE										
FY 96	XETRON CINN OHIO	SS/FFP	CECOM	Mar-96	Aug-97	500	27808	NO	NO	
FY 97	XETRON CINN OHIO	SS/FFP	CECOM	Mar-97	Apr-98	1043	25810	NO	NO	
REMARKS:										

BUDGET ITEM JUSTIFICATION SHEET										DATE	February 1997
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE								C-E CONTINGENCY/FIELDING EQUIP (BA5210)	
OTHER PROCUREMENT / Communications and Electronics Equipment		FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		
QUANTITY		0	0	0	0	0	0	0	0		
COST (in millions)		4.9	0.6	2.0	2.2	3.5	3.9	5.1	6.0		
<p>DESCRIPTION:</p> <p>This program funds the fielding costs associated with a variety of communications-electronics (CE) systems and efforts. Fielding costs include Total Package Fielding (TPF), New Equipment Training (NET), and First Destination Transportation (FDT). TPF efforts include validation of the Materiel Requirements List (MRL), depot staging costs, deprocessing, inventory, installation and handoff of all required equipment and materiel to gaining units. The funding shown for NET is to train the instructor and key personnel who then train the users in the field in operating and maintenance of CECOM managed equipment. FDT costs are those associated with the shipping of various C-E equipment from the contractor to the depot.</p> <p>JUSTIFICATION:</p> <p>The initiatives to be funded in FY98 and FY99 are TPF/NET for C-E equipment requirements for the conversion of selected units. Funds will activate multiple brigades with MSE and TRI-TAC capabilities. These conversions are restructured IAW a downsized force structure. The primary projected efforts to occur in FY98 and FY99 are the conversions of the 156 Sig Bn and the 534th Sig Bn to MSE equipment and the conversion of MSE shelters from Digital Group Multiplexers (DGM) to the newer Transmission Interface Module (TIM) system MSE. These funds will ensure that critical round-out signal units are equipped for the mobile digitized battlefield with GO-TO-WAR systems.</p>											

BUDGET ITEM JUSTIFICATION SHEET										DATE
APPROPRIATION / BUDGET ACTIVITY										February 1997
OTHER PROCUREMENT / Communications and Electronics Equipment					P-1 ITEM NOMENCLATURE					SOLDIER ENHANCEMENT PROG COMIEC (BA5300)
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		
QUANTITY	0	0	0	0	0	0	0	0		
COST (in millions)	0.0	0.0	1.0	7.5	6.5	9.8	7.9	8.7		
<p>DESCRIPTION: The Soldier Enhancement Program procures soldier items that will ensure that our combat soldiers maintain and improve their command and control, mobility, lethality, survivability, and sustainability. Commencing in FY98, the item to be procured will be the Individual Soldier Radio (ISR). The ISR is a small voice radio with a headset for use by individuals within a squad to coordinate their movement. ISR will allow squad members to communicate more effectively while conducting Military Operations Urban Terrain (MOUT) at night and/or greater distances without relying on hand and arm signals. The ISR is an efficient means of coordinating squad communication and facilitates dissemination of information from the squad leader. The ISR consists of a receiver/transmitter, antenna, headset, and carrying case for the load bearing equipment. The ISR is the US Army Infantry Center #1 materiel solution priority.</p> <p>JUSTIFICATION: Command and control through radios currently ends at the squad leader level. The ISR will extend the ability of the squad leader to disseminate voice information to the members of the squad by using a small, rugged, non-developmental radio. The FY98 funds will initiate fielding of over 55% of Force Package 1 (FP1) (i.e., non-Land Warrior, non-Mounted Warrior, non-Air Warrior). The remainder will be fielded in FY99, along with Force Package 2.</p>										

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				B. WEAPON SOLDIER ENHANCEMENT PROG COM/ELEC (BA5300)				C. MANUFACTURER NAME TBS		D. DATE February 1997	
ID	CD	FY 96		FY 97		FY 98		FY 99		TotalCost	Qty	UnitCost	UnitCost
		TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each				
OPA Cost Elements													
Hardware - Individual Soldier Radio													
Support Engineering Change Proposals													
TOTAL													

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE
B. APPROPRIATION / BUDGET ACTIVITY										February 1997
C. P-1 ITEM NOMENCLATURE										
SOLDIER ENHANCEMENT PROG COM/EEC (BA5300)										
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY Each	UNIT COST \$	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A
Hardware - Individual Soldier Radio	TBS	FFP/Op	CECOM	Jan-98	Apr-98	1316	760	No	Yes	May-97
FY 98	TBS	FFP/Op	CECOM	Oct-98	Oct-98	9963	752	No	Yes	May-97
FY 99										
REMARKS:										

BUDGET ITEM JUSTIFICATION SHEET										DATE
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE								
OTHER PROCUREMENT / Communications and Electronics Equipment		COMBAT SURVIVOR EVADER LOCATOR (CSEL) (B03200)								
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		
QUANTITY	0	0	0	0	0	0	0	0		
COST (in millions)	0.0	0.0	5.7	14.0	19.2	7.4	7.4	7.4		

DESCRIPTION:
The USAF Combat Survivor Evader Locator (CSEL) communication system handheld radio includes secure digital message communications, Global Positioning System (GPS), line of sight (LOS) voice, and radio satellite and ground equipment interfaces to work with existing search and rescue systems for downed aircraft personnel. CSEL decreases the enemy's ability to detect or decipher rescue communications. GPS allows pinpoint location of the U.S. survivor evader. Based on replacing the AN/PRC-112, there is a requirement for 14,628 CSELs.

JUSTIFICATION:
The FY 98 program of 750 units is to support Force Package 1 and will improve survivability. The FY 99 program of 2450 units is to support Force Package 1 and may provide a start on Force Package 2.

OPA Cost Analysis				A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 2 / Communications				B. WEAPON CSEL (B03200)				C. MANUFACTURER NAME TBS				D. DATE February 1997			
OPA Cost Elements				FY 96		FY 97		FY 98		FY 99		FY 99		FY 99		FY 99			
				TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	
				\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	\$000	Each		
HARDWARE																			
NON RECURRING PRODUCTION																			
SYSTEM PROJECT MANAGEMENT																			
ENGINEERING CHANGES																			
DATA																			
TOTAL																			

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE
B. APPROPRIATION / BUDGET ACTIVITY										February 1997
C. P-1 ITEM NOMENCLATURE										
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment										
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY Each	UNIT COST \$	SPEC AVAIL NOW	SPEC REV REQ'D	IF YES W/A
HARDWARE										
FY 98	To Be Selected	SS	USAF	May-98	Oct-99	750	4903	NO	NO	
FY 99	To Be Selected	SS	USAF	May-99	Oct-00	2450	4918	NO	NO	
REMARKS:										

BUDGET ITEM JUSTIFICATION SHEET										DATE	February 1997
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE									
OTHER PROCUREMENT / Communications and Electronics Equipment		MEDICAL COMMUNICATIONS FOR CBT CASUALTY CARE (MA8046)									
		FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		
QUANTITY											
COST (in millions)		0.0	0.0	0.0	9.7	17.2	11.8	9.9	9.9		

DESCRIPTION: Medical Communication for Combat Casualty Care (MC4) provides support to the medical force structure through the acquisition of existing and emerging digital communications equipment and technology capabilities for modular hospital platforms and non-hospital units throughout the wartime theater of operations as well as peace operations, humanitarian assistance and operations in aid of civil authorities.

JUSTIFICATION: FY99 budget request supports requirements for the initial fielding of Force Package 1 far forward combat casualty care capability. It inserts new technologies into existing platforms and initiates implementation of Force XXI concepts through communication advancement to enhance medical treatment. Acquisition of specific equipment requirements supporting MC4 are displayed in the attached exhibits.

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				B. WEAPON MEDICAL COMMUNICATIONS FOR CBT CASUAL (MA8046)				C. MANUFACTURER NAME		D. DATE February 1997	
OPA Cost Elements	ID CD	FY 96		FY 97		FY 98		FY 99		TotalCost \$000	Qty Each	UnitCost \$000	UnitCost \$000
		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each				
Hands-Free Radios/GPS *										12	20		1
Small Extension Node													
Deployable T-MED to include: 20 each: PCs Laptop PCs Digital Printers Routers Interactive Videos Scopes Digital Cameras										7000	7		1000
5 each: 2:1 ISO ECU										2639	7		377
TOTAL										9651			
* Cost of Hands Free Radio is \$600 each.													

* Cost of Hands Free Radio is \$600 each.

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE
B. APPROPRIATION / BUDGET ACTIVITY										February 1997
C. P-1 ITEM NOMENCLATURE										
MEDICAL COMMUNICATIONS FOR CBT CASUAL (MA8046)										
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY Each	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A
Hands-Free Radios/GPS *										
FY 99	TBS	TBS	TBS	Dec-98	Mar-99	20	1	YES		
Small Extension Node										
FY 99	TBS	TBS	TBS	Dec-98	Mar-99	7	1000	YES		
Deployable T-MED to include:										
FY 99	TBS	TBS	TBS	Dec-98	Mar-99	7	377	YES		
REMARKS:										

BUDGET ITEM JUSTIFICATION SHEET										DATE	February 1997
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE								JWICS CONNECTIVITY (BD3400)	
OTHER PROCUREMENT / Communications and Electronics Equipment		FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		
QUANTITY		0	0	0	0	0	0	0	0		
COST (in millions)		0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0		
<p>DESCRIPTION: Procures Joint Worldwide Intelligence Communications System equipment for AMC.</p> <p>JUSTIFICATION: FY97 funds provides online access to validate national intelligence databases for the Army's Materiel Developer, Scientific and Technical (S&T) community. This capability will reduce the acquisition cycle by expediting threat support to the Materiel Developers. Currently hard copies are received and the process takes up to a year, thus providing outdated intelligence threat data.</p>											

BUDGET ITEM JUSTIFICATION SHEET										DATE
APPROPRIATION / BUDGET ACTIVITY										February 1997
OTHER PROCUREMENT / Communications and Electronics Equipment					P-1 ITEM NOMENCLATURE					CI AUTOMATION ARCHITECTURE (BK5284)
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		
QUANTITY	0	0	0	0	0	0	0	0		
COST (in millions)	0.0	2.4	2.3	2.3	1.8	2.0	2.1	2.1		

DESCRIPTION: The program provides Army with the capabilities of ADP support to the Deployed Counterintelligence assets for immediate intelligence information in support of the Land Component Commander.

JUSTIFICATION: Funding is required to support the development of the Defense Counterintelligence Integrated Information System (DCIIS) funds will procure DODIIS-compliant Counterintelligence and Human Intelligence workstations using migration platforms such as the Defense Intelligence Threat Data System (DITDS). Funds will support 21 large sites (MACOMS), 52 medium sites (installations and Force Projection Brigades), and 253 small sites (detachments in support EAC and ECB organizations).

BUDGET ITEM JUSTIFICATION SHEET										DATE
APPROPRIATION / BUDGET ACTIVITY										February 1997
OTHER PROCUREMENT / Communications and Electronics Equipment										
P-1 ITEM NOMENCLATURE										
CI CONUS BASED LAN (BK5287)										
QUANTITY	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		
	0	0	0	0	0	0	0	0		
COST (in millions)	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0		
<p>DESCRIPTION: Funds the Secure Local Area networks (LAN) within US Army Foreign Counterintelligence Agency (USAFCA) and communications capabilities to USAINSCOM, overseas detachments and other intelligence community locations.</p> <p>JUSTIFICATION: FY97 provides for the USAFCA LAN and services to the Army Case Control Office (ACCO) and replaces obsolete WANG VS-85 which are used to support the secure counterintelligence automated research facility (SCARF) data base with UNIX database engine as part of the LAN. This LAN will provide access to the strategic CI operations and investigations data required by tactical units for force protection mission on a near real time basis.</p>										

BUDGET ITEM JUSTIFICATION SHEET										DATE	February 1997
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE								TSEC-ARMY KEY MGT SYS (BA1201)	
OTHER PROCUREMENT / Communications and Electronics Equipment		FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		
QUANTITY											
COST (in millions)	0.0		0.0	4.7	10.3	6.7	1.7	2.7	3.5		
<p>DESCRIPTION:</p> <p>Army Key Management System (AKMS) is the Army's system to integrate the functions of Communications Security (COMSEC) key management control and distribution, Electronic Counter-Countermeasures (ECCM) generation and distribute and Signal Operation Instructions (SOI) management into a single automated system. AKMS will electronically generate and distribute Army key and key-related material, thereby limiting adversarial access to, and reducing the vulnerability of, Army C4I systems. AKMS capabilities will also increase operational flexibility and reduce force response time. It provides communications and network planning with key management on a single platform. AKMS is part of the management/support infrastructure for the Warfighter Information Network (WIN) program.</p> <p>JUSTIFICATION:</p> <p>FY 98 funds will procure the upgrades to the Common Hardware Systems (CHS) workstations necessary to expand the memory to accommodate the ACMES phase II software (common tier 3 software) and provide for the necessary government and contractor engineering.</p> <p>FY 99 funds will procure Data Transfer Devices (DTD's), continue the upgrade to the CHS workstations, and provide for the associated government and contractor engineering support and fielding. The DTD, which hosts two versions of software, the Automated Net Control Device (ANCD) and the Key Distribution Device (KDD), will be fielded with the SINGGARS radio and to other non-SINGGARS users.</p>											

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				B. WEAPON TSEC-ARMY KEY MGT SYS (BA1201)				C. MANUFACTURER NAME See P-5A				D. DATE February 1997			
OPA Cost Elements		FY 96				FY 97				FY 98				FY 99			
ID	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	
1. Data Transfer Device											710			4646	5903	1	
2. Gov't Engineering											850			710			
3. Contractor Engineering											250			875			
4. Documentation											915			200			
5. Fielding											1989	153	13	933	227	13	
6. CHS Upgrade Workstation														2951			
TOTAL								4714						10315			

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE
B. APPROPRIATION / BUDGET ACTIVITY										February 1997
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment					C. P-1 ITEM NOMENCLATURE					
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQD	IF YES W/A
1. Data Transfer Device										
FY 99	TBS	C/FP/OPT NSA		Dec-98	Jan-00	5903	1	YES	NO	
2. CHS Upgrade Workstation *										
FY 98	GTE, Taunton MA	C/FP/OPT CECOM		Feb-98	Jul-98	153	13	YES	NO	
FY 99	GTE, Taunton MA	C/FP/OPT CECOM		Feb-99	Jul-99	227	13	YES	NO	
REMARKS: * Commercial off-the-shelf equipment procured on the CHS-2 contract										

BUDGET ITEM JUSTIFICATION SHEET										DATE
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE								
OTHER PROCUREMENT / Communications and Electronics Equipment		TSEC - INFORMATION SYSTEM SECURITY (TA0600)								
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		
QUANTITY	0	0	0	0	0	0	0	0		
COST (in millions)	10.6	20.0	10.2	15.0	15.9	17.9	20.4	19.7		
<p>DESCRIPTION: Funds the Army's Information Systems Security (INFOSEC) Program (ISSP). Provides communication security, cryptosecurity, transmission security, emission security, and computer security equipment and products as a means for protecting telecommunications and information systems which process classified, mission sensitive or national security related sensitive information. Prevents exploitation through interception, unauthorized electronic access, or related technical intelligence threats. Ensures authenticity, confidentiality, integrity, protection and availability of information transmitted by information systems.</p>										
<p>JUSTIFICATION: FY 98/99 funds buy:</p> <p>Army Key Management System (AKMS) Workstations deny our adversaries access to our key by super secure electronic distribution of key for Army and remove the burden of paper key from all strategic and tactical Army INFOSEC users.</p> <p>Airborne Terminal (AIRTERM) KY-100 installation kits is used to install KY-100 to secure tactical communications for attack and utility aircraft. The KY-100 provides secure satellite communications in order to use intelligence systems that provide flight and attack data.</p> <p>Tactical -Secure Terminal Equipment (T-STE) and Portable Uninterruptible Power Supplies (PUPS) make use of INFOSEC transparent to soldiers and provide solutions for TOP SECRET/Special Intelligence subscribers to Mobile Subscriber Equipment and Echelons Above Corps. T-STE and PUPS resolve problems of secure interface of strategic and tactical systems and provide for direct links into commercial communications.</p> <p>Secure Network Servers (SNS), TACLANE Tactical guards and Firewalls secure Army's portion of the Defense Information Infrastructure.</p> <p>KIV-7 High Speed encryption device secures Pentagon Communications Center and intelligence systems telecommunications.</p> <p>Fielding supports new equipment training, first destination transportation, and consumable parts for total package fieldings.</p> <p>IDENTIFICATION CODE: A</p>										

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				B. WEAPON TSEC - INFORMATION SYSTEM SECURITY (TA0600)				C. MANUFACTURER NAME		D. DATE February 1997	
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99					
ID	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	\$000	Each	\$
1. KOK-22 KEY PROCESSOR (KP)	A	2787	277	10061	1581	85	18600						
2. LOCAL COMSEC MANAGEMENT SOFTWARE (LCMS)	A	182	454	401									
3. ARMY KEY MANAGEMENT SYSTEM (AKMS) WORKSTATION	A	20	2	10000	923	123	7504	100	7500				
4. KOK-22 TRANSIT CASE	A				430	860	500						
5. KOK-22 ENVIRONMENTAL CASE	A				250	44	5682						
6. KY-100 AIRTERM INSTALLATION KITS	A							365	411	888	221	291	759
7. KY-100 AIRTERM MODS	A	2188			500								
8. T- SECURE TERMINAL EQUIPMENT	A				7998	2147	3725	900	3400		3750	1250	3000
9. T-STE PORTABLE UNINTERRUPTIBLE POWER SUPPLY (PUPS)	A	4275	1644	2600	5674	2578	2201	1800	900	2000	2344	1250	1875
10. SECURE NETWORK SERVER (SNS)	A							374	15	24933	374	15	24933
11. TACLANE TACTICAL GUARD	A										2300	657	3501
12. FIREWALLS	A							2826	138	20478	2826	138	20478
13. KIV-7 HIGH SPEED	A										1500	346	4335
14. KGR-68	A	70	11	6364									
15. FIELDING	A	1125			2627			1033			1663		
TOTAL		10647			19983			10208			14978		

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE	February 1997	
B. APPROPRIATION / BUDGET ACTIVITY		OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				C. P-1 ITEM NOMENCLATURE					TSEC - INFORMATION SYSTEM SECURITY (TA0600)	
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY Each	UNIT COST \$	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A		
1. KOK-22 KEY PROCESSOR (KP) FY 96 FY 97	Lockheed Martin, Camden, NJ Lockheed Martin, Camden, NJ	OPTION MIPR	NSA NSA	Feb-96 Dec-96	Feb-97 Jan-97	277 85	10061 18600	Yes Yes	No No			
2. LOCAL COMSEC MANAGEMENT SOFTWARE (LCMS) FY 96	Lockheed Martin, Camden, NJ	OPTION	NSA	Feb-96	Feb-97	454	401	Yes	No			
3. ARMY KEY MANAGEMENT SYSTEM (AKMS) WORKSTATION FY 96 FY 97 FY 98	TELOS, Washington, DC TBS TBS	C/FPI C/FPI C/FPI	CECOM CECOM CECOM	Jul-96 Mar-97 Oct-97	Jan-97 Sep-97 Apr-98	2 123 100	10000 7504 7500	Yes Yes Yes	No No No			
4. KOK-22 TRANSIT CASE FY 97	TBS	C/FPI	NSA	Feb-97	Jun-97	860	500	Yes	No			
5. KOK-22 ENVIRONMENTAL CASE FY 97	Army Depot, Tobyhanna, PA	MIPR	NSA	Jan-97	Jun-97	44	5682	Yes	No			
6. KY-100 AIRTERM INSTALLATION KITS FY 98 FY 99	TBS TBS	C/FPI C/FPI	CECOM CECOM	Oct-97 Oct-98	Apr-98 Apr-99	411 291	888 759	Yes Yes	No No			
7. T-SECURE TERMINAL EQUIPMENT (T-STE) FY 97 FY 97 FY 98	Lockheed Martin, Camden, NJ Lockheed Martin, Camden, NJ TBS	IDIQ IDIQ IDIQ	NSA NSA NSA	Dec-96 Feb-97 Oct-97	Jul-97 Jan-98 Jul-98	1151 996 900	3725 3725 3400	Yes Yes Yes	No No No			
REMARKS: NATIONAL SECURITY AGENCY (NSA)												
U.S. ARMY COMMUNICATIONS ELECTRONICS COMMAND (CECOM)												
KOK-22 KEY PROCESSOR SHOWS TWO BUYS, ONE AT OPTION PRICES FROM AN OPTION TO THE CONTRACT AND THE OTHER BY MIPR AT ORIGINAL BASIC PRICE, SAME MANUFACTURER, BUT FROM THE DOD COMSEC UTILITY PROGRAM.												

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE
B. APPROPRIATION / BUDGET ACTIVITY										February 1997
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment										
TSEC - INFORMATION SYSTEM SECURITY (TA0800)										
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY Each	UNIT COST \$	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A
FY 99	TBS	IDIQ	NSA	Oct-98	Jul-99	1250	3000	Yes	No	
8. T-STE PORTABLE UNINTERRUPTIBLE POWER SUPPLY (PUPS)										
FY 96	AT&T, GREENSBORO, NC	IDIQ	NSA	Jan-96	May-97	1322	2600	Yes	No	
FY 96	AT&T, GREENSBORO, NC	IDIQ	NSA	Sep-96	Oct-97	322	2600	Yes	No	
FY 97	TBS	IDIQ	GSA	Feb-97	Jun-97	578	2201	Yes	No	
FY 97	TBS	IDIQ	GSA	May-97	Aug-97	2000	2201	Yes	No	
FY 98	TBS	IDIQ	CECOM	Oct-97	Apr-98	900	2000	Yes	No	
FY 99	TBS	IDIQ	CECOM	Oct-98	Apr-99	1250	1875	Yes	No	
9. SECURE NETWORK SERVER (SNS)										
FY 98	TBS	C/FPI	NSA	Oct-97	Jan-98	15	24933	Yes	No	
FY 99	TBS	C/FPI	NSA	Oct-98	Jan-99	15	24933	Yes	No	
10. TACLANE TACTICAL GUARD										
FY 99	TBS	C/FPI	NSA	Oct-98	Apr-99	657	3501	Yes	No	
11. FIREWALLS										
FY 98	TBS	C/FPI	NSA	Oct-97	Jan-98	138	20478	Yes	No	
FY 99	TBS	C/FPI	NSA	Oct-98	Jan-99	138	20478	Yes	No	
12. KIV-7 HIGH SPEED										
FY 99	TBS	C/FPI	NSA	Oct-98	Apr-99	346	4335	Yes	No	
13. KGR-68										
FY 96	NSA	MIPR	NSA	May-96	Jun-96	11	6364	Yes	No	
REMARKS: NATIONAL SECURITY AGENCY (NSA), GENERAL SERVICES ADMINISTRATION (GSA)										
U.S. ARMY COMMUNICATIONS ELECTRONICS COMMAND (CECOM)										
INDEFINITE DELIVERY INDEFINITE QUANTITY (IDIQ)										

[illegible]

BUDGET ITEM JUSTIFICATION SHEET										DATE	February 1997
APPROPRIATION / BUDGET ACTIVITY										P-1 ITEM NOMENCLATURE	
OTHER PROCUREMENT / Communications and Electronics Equipment										TERRESTRIAL TRANSMISSION (BU1900)	

	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY	0	0	0	0	0	0	0	0
COST (in millions)	11.1	6.7	20.8	1.2	1.4	1.4	1.4	1.4

DESCRIPTION: This budget line supports the Department of Defense approved program to modernize and integrate digital operations within the Pacific and European Theaters. The architecture of the Defense Information Infrastructure (DII) will be reconfigured to accommodate the rapidly changing deployment and realignment of forces within the Pacific and European Theaters. This program is a component of the Army's seamless Enterprise Network that provides compatibility across operational systems. The modernization program supports force projection through technology insertion and evolutionary changes. The program will utilize emerging technological developments to capitalize on digital information systems throughout the worldwide DII. The theater Commanders-in-Chief require a robust infrastructure that will facilitate mobilization and sustainment of a deployed force.

The US Forces, Korea (USFK) requirements have been approved in the Extended Korea Improvement Program (EKIP) by the Joint Chiefs of Staff (JCS). The EKIP strategically improves the ability to successfully defend Korea during periods of stress, increase survivability of C4I systems for the warfighter, increase information systems capacity to meet surge requirements, and improve the ability to reconstitute C4I systems. This program also supports command and control communications networks serving the Commander-in-Chief, US Forces and United Nations Command, Korea, and Commander-in-Chief, US Forces, Japan. The modernization of communications systems is essential for wartime capabilities in the Pacific staging areas of Korea and Japan.

The Digital European Backbone (DEB) and DII Spain/Italy Reconfiguration (DSIR) Programs realign the DII in Europe to comply with mandates of the Conventional Forces, Europe agreement and the Base Realignment and Closure (BRAC) Acts. The DII must be reconfigured as US forces are withdrawn or reassigned and military facilities are returned to German control. Alignments convert manpower intensive stations to unattended operations through contractor maintenance teams. This program utilizes assets that are recovered from sites closed in prior years to replace operating systems which are no longer logistically supportable. Systems are secured through bulk encryption devices.

Systems/programs supported by this program include the European Telephone System, Defense Switched Network and Defense Data Network. The program objectives support the Conventional Forces, Europe effort through the application of remote operations, engineering the recovery of available assets and their rehabilitation for use in other segments of the network. This provides a significant cost avoidance through reuse of capital equipment.

BUDGET ITEM JUSTIFICATION SHEET										DATE	February 1997
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE									
OTHER PROCUREMENT / Communications and Electronics Equipment		TERRESTRIAL TRANSMISSION (BU1900)									
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003			
QUANTITY											
COST (in millions)											
<p>JUSTIFICATION: The dramatic changes in the Pacific area have increased the demands to improve the survivability, capacity and reconstitution capabilities of communications in Korea. FY 98/99 funding enhances the readiness of U.S. forces in Korea and provides the warfighters with a more robust, survivable capable command, control, communications and computer (C4) infrastructure for Pacific area deployments. Funding provides for completion of Phase II of the Digital Microwave Upgrade , Automated Technical Controls, Battlefield Visualization System and the Survivable Command & Control Network as identified in the EKIP Program.</p> <p>The DEB Phase IV reduces the Army's force structure through replacement of manpower intensive facilities, reconfigures the Defense Communication System (DCS) in support of announced base closures and reduces cost associated with the European Defense Switched Network. The implementation of the DEB program will affect DII capabilities by improving compatibility across operating systems and the ability to transmit larger volumes of data. FY 98/99 dollars fund closure of Augsburg and reconfigure the DII to ensure DEB backbone connectivity; Digital Radio and Multiplex Acquisition (DRAMA) replacement; Army Maintenance Supply Facility (AMSF) support; Engineering, Furnishing, Installing and Testing (EFI&T) staging support; reutilization of recovered assets and initial Network Management System planning.</p>											

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				B. WEAPON TERRESTRIAL TRANSMISSION (BU1900)				C. MANUFACTURER NAME		D. DATE February 1997			
OPA Cost Elements	ID CD	FY 96		FY 97		FY 98		FY 99		TotalCost \$000	UnitCost \$000	Qty Each	UnitCost \$000	Qty Each	UnitCost \$000
		TotalCost \$000	Qty Each	TotalCost \$000	Qty Each	TotalCost \$000	Qty Each	TotalCost \$000	Qty Each						
TERRESTRIAL TRANSMISSION EUROPE		2331		907							VAR				902
TERRESTRIAL TRANSMISSION PACIFIC		8769		5817											327
TOTAL		11100		6724											1229

*\$19566 was provided for Terr Trans Pacific (EKIP) and will be shown as such on P5 and P5A.

OPA Cost Analysis			A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				B. WEAPON TERRESTRIAL TRANSMISSION (BU2000)				C. MANUFACTURER NAME				D. DATE February 1997			
OPA Cost Elements			FY 96				FY 97				FY 98				FY 99			
ID	CD		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	
EUROPE:																		
	A	Engineer, Furnish, Install, & Test (EI&T) Staging Support	75	1	75		50	1	50		50	1	50		50	1	50	
	A	Reutilization of Assets				35	35	1	35		35	1	35		35	1	35	
	A	Army Maintenance Supply Facility (AMSF) Spt	15	1	15		15	1	15		15	1	15		15	1	15	
	A	EI&T Mannheim - Donnersberg Link	98	1	98													
	A	HP-1000/Joint European Monitoring System (JEMS) replacement program.	18	1	18													
	A	Digital Radio and Multiplex Acquisition (DRAMA) Replacement				160	VAR	VAR	100	VAR	VAR	100	VAR	VAR	100	VAR	VAR	
	A	EI&T Hanau - Feldberg				647	1	647										
	A	Augsburg-Gablingen							393	1	393			393				
	A	Network Management System							319	1	319			319				
	A	Site Prep for DCS Facility - Hanau DII (5th Signal Command)	780	1	780													
	A	Desert Focus Initiatives	1345	VAR	VAR													
		TOTAL	2331			907			912					902				

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										
B. APPROPRIATION / BUDGET ACTIVITY					DATE		February 1997			
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment					C. P-1 ITEM NOMENCLATURE					
TERRESTRIAL TRANSMISSION (BU2000)										
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A
EUROPE:										
Engineer, Furnish, Install, & Test (EFI&T) Staging Support										
FY 96	AMC EUROPE	MIPR	CECOM/ISMA	Dec-95	Jan-96	1	75			
FY 97	AMC EUROPE	MIPR	CECOM/ISMA	Dec-96	Jan-97	1	50	YES	NO	
FY 98	AMC EUROPE	MIPR	CECOM/ISMA	Dec-97	Jan-98	1	50	YES	NO	
FY 99	AMC EUROPE	MIPR	CECOM/ISMA	Dec-98	Jan-99	1	50	YES	NO	
Reutilization of Assets										
FY 97	TOAD	WR	CECOM	Jan-97	May-97	1	35	YES	NO	
FY 98	TOAD	WR	CECOM	Jan-98	May-98	1	35	YES	NO	
FY 99	TOAD	WR	CECOM	Jan-99	May-99	1	35	YES	NO	
Army Maintenance Supply Facility (AMSF) Spt										
FY 96	5TH SIG CMD	MIPR	CECOM/ISMA	Mar-96	Mar-96	1	15			
FY 97	5TH SIG CMD	MIPR	CECOM/ISMA	Mar-97	Mar-97	1	15	YES	NO	
FY 98	5TH SIG CMD	MIPR	CECOM/ISMA	Mar-98	Mar-98	1	15	YES	NO	
FY 99	5TH SIG CMD	MIPR	CECOM/ISMA	Mar-99	Mar-99	1	15	YES	NO	
EI&T Mannheim - Donnersberg Link										
FY 96	VAR *	VAR *	VAR *	Feb-96	Mar-96	1	98			
HP-1000/Joint European Monitoring System (JEMS) replacement program.										
FY 96	TOAD	WR	CECOM	Jun-96	Aug-96	1	18			
REMARKS:										
TOAD = Tobyhanna Army Depot WR = Work Request										
* Material/services provided by TOAD, 504th Signal Bn, ISEC, DDRW, European District Engineers, and 5th Signal Command.										

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE
B. APPROPRIATION / BUDGET ACTIVITY					C. P-1 ITEM NOMENCLATURE					February 1997
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment					TERRESTRIAL TRANSMISSION (BU2000)					
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A
Digital Radio and Multiplex Acquisition (DRAMA) Replacement										
FY 97 *	TOAD	WR	CECOM	Dec-96	Jan-97	VAR	VAR	YES	NO	
FY 98 *	TOAD	WR	CECOM	Dec-97	Jan-98	VAR	VAR	YES	NO	
FY 99 *	TOAD	WR	CECOM	Dec-98	Jan-99	VAR	VAR	YES	NO	
EI&T Hanau - Feldberg										
FY 97	VAR *	VAR *	VAR *	Dec-96	Jan-97	1	647	YES	NO	
Augsburg-Gablingen										
FY 98	VAR *	VAR *	VAR *	Dec-97	Jan-98	1	393	YES	NO	
Network Management System										
FY 98	TBS	C/FP	CECOM	Dec-97	Jan-98	1	319	YES	NO	
FY 99	TBS	C/FP	CECOM	Dec-98	Jan-99	1	702	YES	NO	
Site Prep for DCS Facility - Hanau DII (5th Signal Command)										
FY 96	STAATLICHES HOCHBAUMT	SS/FP	WIESBADEN DOC	Feb-96	Apr-96	1	780			
DESERT FOCUS INITIATIVES										
Microwave Systems										
FY96	COE, Winchester, VA	MIPR	USASC	Sep-96	Oct-96	1	506			
Switching Systems										
FY96	GTE	C/FP	USASC	Sep-96	Oct-96	VAR	VAR			
REMARKS:										
TOAD = Tobyhanna Army Depot										
* Material/services provided by TOAD, 504th Signal Bn, ISEC, DDRW, European District Engineers, and 5th Signal Command.										
GTE = GTE Government Systems Corp, Needham, MA										

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				B. WEAPON TERRESTRIAL TRANSMISSION PACIFIC (BU2100)				C. MANUFACTURER NAME				D. DATE February 1997	
OPA		FY 96				FY 97				FY 98				FY 99	
Cost Elements		TotalCost	Qty	UnitCost	TotalCost	TotalCost	Qty	UnitCost	TotalCost	TotalCost	UnitCost	TotalCost	Qty	UnitCost	TotalCost
		\$000	Each	\$000	\$000	\$000	Each	\$000	\$000	\$000	\$000	\$000	Each	\$000	\$000
PACIFIC: Extended Korean Improvement Program [EKIP]* Defense Info Infrastructure Contingency Satellite (DSAT) KT / DACOM Interconnect 20 ft. Antennas Digital Patch & Access Sys (DPAS) Upgrade Digital Microwave Phase I - Engineering Digital Microwave Phase I - EF&T Technical Control Analysis Element Tactical Strategic Interface Digital Microwave Phase II - EF&T Network and Systems Management Fiber Optic - Camp Oscar to Walker [EUSA] Fiber Optic - Camp Walker to Henry [EUSA] Emergency Action Facility (EAF) Upgrade C2 Comm for Cdr USFK & Staff HMMW CC Seoul/Tango Audio Visual Upgrade Automated Technical Controls Battlefield Visualization System Survivable Command & Control Network	A	49	1	49											
	A	670	1	670											
	A	1575	9	175											
	A	220	1	220											
	A	160	1	160											
	A	2064	1	2064											
	A	2000	1	2000		111	1	111							
	A	331	VAR	VAR											
	A	340	1	340		2529	1	2529	5835	1	5835	327	1	327	
	A	1360	VAR	VAR		200	VAR	VAR							
	A					55	1	55							
	A					62	1	62							
	A					2075	1	2075							
	A					125	VAR	VAR							
	A					660	1	660	3683	1	3683				
TOTAL		8769				5817			19899	327		327			

\$19566 listed as Terr Trans Europe on P5 was provided for EKIP and is detailed on P5 and P5A as EKIP (Terr Trans Pacific)
USFK = US Forces Korea

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE
B. APPROPRIATION / BUDGET ACTIVITY										February 1997
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment										
C. P-1 ITEM NOMENCLATURE										
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY Each	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A
PACIFIC: Extended Korean Improvement Program [EKIP] Defense Info Infrastructure Contingency Satellite (DSAT) FY 96	EUSA	MIPR	PM TS	Apr-96	May-96	1	49			
KT / DACOM Interconnect FY 96	EUSA	MIPR	PM TS	Apr-96	Jun-96	1	670			
20 ft. Antennas FY 96	HARRIS	C/FP	CECOM	VAR	Nov-96	9	175			
Digital Patch & Access Sys (DPAS) Upgrade FY 96	AT&T Network Systems	C/FP	AIR FORCE	Mar-96	May-96	1	220			
Digital Microwave Phase I - Engineering FY 96	ISEC	MIPR	PM TS	Jan-96	Mar-96	1	160			
Digital Microwave Phase I - EFI&T FY 96	CRITICOM	C/FP	NAVY	Aug-96	Nov-96	1	2064			
Technical Control Analysis Element FY 96	GSA	C/FP	CECOM	Aug-96	Nov-96	1	2000	YES	NO	
FY97	GSA	C/FP	CECOM	Nov-96	Jan-97	1	111			
Tactical Strategic Interface FY 96	ISEC	MIPR	PM TS	Apr-96	Jun-96	VAR	VAR			
REMARKS:										
Harris Corp, Melbourne, FL AT&T Network System, Fairfax, VA CRITICOM = Critical Communications, Lanham, MD EUSA = Eighth US Army PM TS = Program Manager Transmission Systems ISEC = Information Systems Engineering Command										

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE	February 1997
B. APPROPRIATION / BUDGET ACTIVITY											
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment											
C. P-1 ITEM NOMENCLATURE											
TERRESTRIAL TRANSMISSION PACIFIC (BU2100)											
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQD	IF YES W/A	
Digital Microwave Phase II - EFI&T											
FY 96	CRITICOM	C/FP	NAVY	Aug-96	Nov-96	1	340				
FY 97	CRITICOM	C/FP	NAVY	Mar-97	Jun-97	1	2529	YES	NO		
FY 98	CRITICOM	C/FP	NAVY	Nov-97	Jan-98	1	5835	YES	NO		
FY 99	CRITICOM	C/FP	NAVY	Nov-98	Jan-99	1	327	YES	NO		
Network and Systems Management											
FY 96	VAR *	C/FP	VAR *	Jun-96	Aug-96	VAR	VAR	YES	NO		
FY 97	VAR *	C/FP	VAR *	Nov-96	Jan-97	VAR	VAR	YES	NO		
Fiber Optic - Camp Oscar to Walker [EUSA]											
FY 97	TBS	C/FP	USACCK	Jan-97	Mar-97	1	55	YES	NO		
Fiber Optic - Camp Walker to Henry [EUSA]											
FY 97	TBS	C/FP	USACCK	Jan-97	Mar-97	1	62	YES	NO		
Emergency Action Facility (EAF) Upgrade											
FY 97	NASA/CALTECH	MIPR	JPL	Feb-97	Apr-97	1	2075	YES	NO		
C2 Comm for Cdr USFK & Staff HMMW											
FY 97	TBS	C/FP	CECOM	Dec-96	Mar-96	VAR	VAR	YES	NO		
CC Seoul/Tango Audio Visual Upgrade											
FY 97	CSC	C/FP	CECOM	Jan-97	Mar-97	1	660	YES	NO		
FY98	TBS	C/FP	CECOM	Jan-98	Mar-98	1	3683	YES	NO		
REMARKS:											
CRITICOM = Critical Communications, Lanham, MD											
* = Various Navy and Air Force contracts											
USACCK = US Army Contracting Center, Korea											
PM TS = Program Manager Transmission Systems											

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE	February 1997
B. APPROPRIATION / BUDGET ACTIVITY		OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				C. P-1 ITEM NOMENCLATURE					
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A	
Automated Technical Controls FY98	General Signal	C/FP	CECOM	Dec-97	Feb-98	VAR*	VAR				
Battlefield Visualization System FY98	TBS	C/FP	CECOM	Jan-98	Apr-98	1	1681				
Survivable Command & Control Network FY98	TBS	C/FP	CECOM	Jan-98	Apr-98	1	2700				
REMARKS:											

BUDGET ITEM JUSTIFICATION SHEET										DATE
APPROPRIATION / BUDGET ACTIVITY										February 1997
OTHER PROCUREMENT / Communications and Electronics Equipment										
P-1 ITEM NOMENCLATURE										
BASE SUPPORT COMMUNICATIONS (BU4160)										
QUANTITY	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		
	0	0	0	0	0	0	0	0		0
COST (in millions)	3.4	1.1	1.1	1.1	1.9	2.0	2.0	2.1		2.1

DESCRIPTION: This budget line funds Armywide requirements for base support radio systems, and test, measurement and diagnostic equipment (TMDE) for US Army Signal Command (USASC). Base support radios are used by installation military police, fire departments, medical personnel and other emergency response activities to coordinate critical, time sensitive emergencies and for support during mobilization, deployment and split-based operations. Base support radio systems will permit users to share frequencies thus conserving scarce radio spectra and will provide secure voice/data transmission and access to local telephone systems from portable hand-held radios. The FCC and National Telecommunications Information Administration (NTIA) have drastically reduced the available frequencies throughout CONUS. In Korea, the Ministry of Communications (MOC) will implement new bandwidth and channel separation criteria by FY 97, which will render existing radios obsolete because they cannot be modified to add the new frequency. Mission capability of law enforcement, security and other base forces during mobilization, deployment and split-base operations would also be greatly constrained without adequate communications capability. This program also supports the replacement of obsolete, non-supportable TMDE and interim mission support for command, control, communications and computers worldwide. The USASC TMDE inventory consists of general purpose and special purpose test equipment. This command's capability is maintained through phased replacement of obsolete, non-supportable TMDE. Additionally, long lead times for acquisition of new TMDE results in this program supporting interim acquisition of special purpose TMDE to satisfy mission requirements. Densities of TMDE supported by this program are determined by Defense Information Systems Agency (DISA) standards and maintenance support plans for information systems.

JUSTIFICATION: FY 98/99 funds upgrade or replace base support radio systems that US Forces Command (FORSCOM) and Eighth US Army (EUSA) have identified as critical requirements. Based on the USASC 5-Year TMDE Acquisition Plan, FY 98/99 funds will also purchase replacement TMDE, which includes such items as transmission test sets, plotters, recorders, spectrum analyzers and oscilloscopes. FY 98/99 interim TMDE support includes local area network (LAN) analyzers, protocol analyzers, data communications analyzers and fiber optic test equipment. These funds will also provide replenishment of items that are coded non-economically repairable and TMDE to satisfy increases in authorization levels due to expanded and upgraded information systems worldwide.

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				B. WEAPON BASE SUPPORT COMMUNICATIONS (BU4160)				C. MANUFACTURER NAME		D. DATE February 1997	
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99					
ID	CD	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
TMDE Replacement/Quality Assurance TMDE	A	733	VAR	VAR	595	VAR	VAR	588	VAR	VAR	689	VAR	VAR
Non-Tactical Trunked Radio Sys [FORSCOM]	A	900	1	900	236	1	236	298	VAR	VAR	297	VAR	VAR
Secure Digital Non-Tactical Radio Sys [MDW]	A	1122	1	1122									
Commercial Land Mobile Radio Sys [EUSA]	A	501	1	501	237	1	237	167	1	167	163	1	163
Public Safety Communications System [AMC]	A	109	VAR	VAR							1149		
TOTAL		3365			1068			1053					
TMDE - Test, Measurement, & Diagnostic Equipment													

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE	February 1997
B. APPROPRIATION / BUDGET ACTIVITY											
C. P-1 ITEM NOMENCLATURE											
BASE SUPPORT COMMUNICATIONS (BU4160)											
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY Each	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A	
TMDE Replacement/Quality Assurance TMDE											
FY 96	VAR *	VAR *	CECOM	VAR *	VAR *	VAR	VAR	VAR			
FY 97	VAR *	VAR *	CECOM	VAR *	VAR *	VAR	VAR	YES	NO		
FY 98	VAR *	VAR *	CECOM	VAR *	VAR *	VAR	VAR	YES	NO		
FY 99	VAR *	VAR *	CECOM	VAR *	VAR *	VAR	VAR	YES	NO		
Non-Tactical Trunked Radio Sys [FORSCOM]											
FY 96	MOTOROLA	C/FP	CECOM	Mar-96	Jun-96	1	900	YES	NO		
FY 97	MOTOROLA	OPTION	CECOM	Jan-97	Mar-97	1	236	YES	NO		
FY 98	MOTOROLA	OPTION	CECOM or Installation	Dec-97	Mar-98	VAR	VAR	YES	NO		
FY 99	MOTOROLA	OPTION	CECOM or Installation	Dec-98	Mar-99	VAR	VAR	YES	NO		
Secure Digital Non-Tactical Radio Sys[MDW]											
FY 96	MOTOROLA	C/FP	Ft. Meade, MD	Dec-95	Mar-96	1	1122				
Commercial Land Mobile Radio Sys [EUSA]											
FY 96	MOTOROLA	C/FP	USACCK	Sep-96	Dec-96	1	501	YES	NO		
FY 97	TBS	C/FP	USACCK	Jun-97	Sep-97	1	237	YES	NO		
FY 98	TBS	C/FP	USACCK	Jun-98	Sep-98	1	167	YES	NO		
FY 99	TBS	C/FP	USACCK	Jun-99	Sep-99	1	163	YES	NO		
Public Safety Communications System [AMC]											
FY 96	MOTOROLA	C/FP	TACOM	Nov-96	Jan-97	VAR	VAR	YES	NO		

REMARKS:

VAR* Denotes TMDE effort which provides replacement test equipment to support the Information Mission (IM). State-of-the-art test equipment is contracted from a variety of Test, Measurement, & Diagnostic Equipment (TMDE) manufacturers for various sites.

Motorola, Hanover, MD
 USACCK - US Army Contracting Center, Korea
 TACOM - Tank Automotive and Armaments Command

BUDGET ITEM JUSTIFICATION SHEET										DATE
APPROPRIATION / BUDGET ACTIVITY										February 1997
OTHER PROCUREMENT / Communications and Electronics Equipment										
P-1 ITEM NOMENCLATURE										
ARMY DISN ROUTER (BU0300)										
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		
QUANTITY	0	0	0	0	0	0	0	0		0
COST (in millions)	5.6	2.1	3.0	2.1	2.2	2.2	2.2	2.2		2.3

DESCRIPTION: The Army Defense Information System Network (DISN) Router Program (ADRP) addresses Army requirements for DISN connections. The DISN includes both the Unclassified IP Router Network (UIPRNET) and the Secret IP Router Network (SIPRNET). The ADRP includes the acquisition of routers, access servers, modems, and associated networking and management devices necessary to connect Army host computers, terminals and Local Area Networks (LANs) to the DISN. Program acquisition also includes installation, Installation Bill of Material (IBOM), training and maintenance. The routers and access servers are tailored to data requirements at each Army location and are expandable to meet changes in data requirements. The routers are also upgradable to future Army, DOD and industry standards. Reducing the number of connections required to support Army DISN requirements avoids multiple router connection charges with each associated DISN connection. The ADRP is an integral part of the Power Projection Command Control Communications Computer Infrastructure (P2C4I) initiative. The overall objective of P2C4I is to (1) support communications requirements of deployed forces and their access to home installation sustaining base systems, and (2) emplace information systems in a coordinated, synchronized, integrated manner; thereby, optimizing funding/personnel resources and maximizing the operational benefits. P2C4I identifies the cooperative role and responsibility for installations in the active, direct execution of the National Military Strategy to project forces beyond the borders of the United States to anywhere in the world with little advanced notice.

JUSTIFICATION: FY 98/99 funds add new capability in the DDN usage reduction effort, provide more capacity for data communication users and reduce the time to acquire services. FY 98 funds will procure 20 Routers and 21 Access Servers. FY 99 funds will procure 14 Routers and 15 Access Servers.

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				B. WEAPON ARMY DISN ROUTER (BU0300)		C. MANUFACTURER NAME		D. DATE February 1997			
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99					
ID	CD	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000			
Routers	A	3684	* 40	VAR	1139	* 12	VAR	1899	* 20	VAR	1358	* 14	VAR
Access Servers	A	331	* 26	VAR	935	* 18	VAR	1092	* 21	VAR	780	* 15	VAR
Modems	A	691	* 912	VAR									
Army Regional Transition Network (ARTNET)	A	900	1	900									
TOTAL		5606			2074			2991			2138		
* Unit costs are site specific.													

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										
B. APPROPRIATION / BUDGET ACTIVITY					DATE					February 1997
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment					C. P-1 ITEM NOMENCLATURE					
ARMY DISH ROUTER (BU0300)										
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY Each	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQD	IF YES W/A
** Routers FY 96 FY 97 FY 98 FY 99	AIS MICROSTAR/OAO MICROSTAR/OAO MICROSTAR/OAO	C/FP C/FP C/FP C/FP	WEST POINT DOC*** CECOM CECOM CECOM	Mar-96 Mar-97 Mar-98 Mar-99	VAR * VAR * VAR * VAR *	40 12 20 14	VAR VAR VAR VAR	YES YES YES YES	NO NO NO NO	
Access Servers FY 96 FY 97 FY 98 FY 99	AIS MICROSTAR/OAO MICROSTAR/OAO MICROSTAR/OAO	C/FP C/FP C/FP C/FP	WEST POINT DOC CECOM CECOM CECOM	Mar-96 Mar-97 Mar-98 Mar-99	VAR * VAR * VAR * VAR *	26 18 21 15	VAR VAR VAR VAR	YES YES YES YES	NO NO NO NO	
Modems FY 96	AIS	C/FP	WEST POINT DOC	Mar-96	VAR *	912	VAR			
Army Regional Transition Network (ARTNET) FY 96	Electronic Data Sys Corp	C/FP	CECOM	Jun-96	VAR *	1	900			
REMARKS: AIS = Applied Info Service, Inc., Somerset, NJ MICROSTAR, Jessup, MD EDS, Herndon, VA OAO, Greenbelt, MD * Multiple awards and delivery orders/dates throughout the FY. ** Site specific. *** Director of Contracts (DOC)										

BUDGET ITEM JUSTIFICATION SHEET										DATE
APPROPRIATION / BUDGET ACTIVITY										February 1997
OTHER PROCUREMENT / Communications and Electronics Equipment										
P-1 ITEM NOMENCLATURE										
ELECTROMAG COMP PROG (EMCP) (BD3100)										
QUANTITY	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		
	0	0	0	0	0	0	0	0		
COST (in millions)	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5		0.5

DESCRIPTION: The Electromagnetic Compatibility Program (EMCP) ensures readiness and effectiveness of command and control communications systems through the testing of tactical and strategic systems for electromagnetic compatibility with other civil or defense communications-electronics systems operating within their environment. This includes the need to conduct EMC surveys at proposed and existing communications-electronics (C-E) sites intended for upgrade or planning for frequency resources. This is done to avoid expensive reworking/retrofitting. Propagation engineering is required in designing new networks and CE equipment. Unique computer models are developed, upgraded and maintained for calculating EMC, propagation predictions, and engineering analyses. These models perform systems analyses for: (1) line-of-sight, (2) high frequency skywave and groundwave, (3) meteor burst, (4) tropospheric scatter communications systems, (5) antenna performance, and (6) spectrum management.

JUSTIFICATION: FY 98/99 funds procure the following replacement and enhancement equipment to sustain the program.

A. EMC MEASUREMENT EQUIPMENT is used to conduct EMC surveys to characterize the electromagnetic environment. Surveys are used to measure spectrum occupancy, detect interference and eliminate electromagnetic hazards.

B. SPECTRUM ANALYZERS display and record the frequency domain and transmission characteristics of the radio frequency signals acquired.

C. HIGH FREQUENCY (HF) NOISE MEASUREMENT SYSTEM is used to characterize the noise environment at high frequency communications sites so that their suitability can be determined.

D. ENGINEERING WORKSTATIONS AND PERIPHERALS are computers and related equipment for ASC to perform propagation engineering analysis functions.

E. MICROWAVE PROPAGATION PREDICTION SYSTEM analyzes the propagation characteristics and predicts the reliability of a microwave communication system (including high data rate digital systems).

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				B. WEAPON ELECTROMAG COMP PROG (EMCP) (BD3100)				C. MANUFACTURER NAME		D. DATE February 1997	
OPA Cost Elements	ID CD	FY 96		FY 97		FY 98		FY 99					
		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
EMC Measurement Equipment		212	*VAR	VAR	112	*VAR	VAR	VAR			210	2	105
Spectrum Analyzers													
DOIM AIRP Upgrade					65	3	21				160	2	80
HF Noise Measurement System					100	1	100	260	2	130			
Hazards Measurement System					195	2	97						
Engineering Workstations/Peripherals								12	4	3	12	4	3
M/W Prop Prediction System								197	1	197	80	1	80
TOTAL		212		472				469			462		
*Configuration of equipment varies by site resulting in various unit costs													

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE
B. APPROPRIATION / BUDGET ACTIVITY										February 1997
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment										
C. P-1 ITEM NOMENCLATURE										
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY Each	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A
EMC Measurement Equipment FY 96 FY 99	Watkins-Johnson/Rhodes Schwa TBS	C/FP C/FP	ISC Contracting CECOM Contracting	Apr-96 Apr-99	Nov-96 Aug-99	VAR 2	*VAR 105	YES	NO	
Spectrum Analyzers FY 99	TBS	C/FP	CECOM Contracting	Apr-99	Aug-99	2	80	YES	NO	
DOIM AIRP Upgrade FY 97	TBS	C/FP	CECOM Contracting	Mar-97	Jun-97	3	24			
HF Noise Measurement System FY 97 FY 98	TBS TBS	C/FP C/FP	CECOM Contracting CECOM Contracting	Mar-97 Apr-98	Jul-97 Aug-98	1 2	100 130	YES	NO	
Hazards Measurement System FY 97	TBS	C/FP	CECOM Contracting	Mar-97	Jul-97	2	97			
Engineering Workstations/Peripherals FY 98 FY 99	TBS TBS	C/FP C/FP	CECOM Contracting CECOM Contracting	Apr-98 Apr-99	Aug-98 Aug-99	4 4	3 3	YES YES	NO NO	
M/W Prop Prediction System FY 98 FY 99	TBS TBS	C/FP C/FP	CECOM Contracting CECOM Contracting	Apr-98 Apr-99	Aug-98 Aug-99	1 1	197 80	YES YES	NO NO	
REMARKS: *Configuration of equipment varies by site resulting in various unit costs.										
Watkins Johnson Corp., Gaithersburg, MD 20787-1794 Rhode & Schwarz, Inc Manassas, VA 22110										

BUDGET ITEM JUSTIFICATION SHEET										DATE	February 1997
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE								WW TECH CON IMP PROG (WWTCIP) (BU3610)	
OTHER PROCUREMENT / Communications and Electronics Equipment		FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		
QUANTITY		0	0	0	0	0	0	0	0		
COST (in millions)		6.5	0.8	0.9	0.9	1.8	1.8	2.0	2.0		
<p>DESCRIPTION: The Worldwide Technical Control Improvement Program (WWTCIP) provides needed upgrades, expansion, and modernization of the Worldwide Defense Communication System (DCS) technical control facilities in order to effect the integration and efficient operation of DCS digital transmission subsystems. This program provides DC power, timing and synch, line conditioning equipment, automatic technical control, digital patch and access system (DPAS), VF tactical interface, Defense Communication Systems TRI-TAC interface, and appropriate test equipment and associated hardware. WWTCIP supports worldwide communications transmission media and switching upgrades such as the Digital European Backbone (DEB), Korean Improvement Program, Japan Reconfiguration and Digitization, and Defense Satellite Communications. Program also funds the automation of Technical Control Facilities, as part of the Joint Chiefs of Staff (JCS) directed Korean C4I enhancements, under the Extended Korean Improvement Program (EKIP).</p> <p>JUSTIFICATION: Automation/Integration of Technical Control (AIRC) is an Army Signal Command (ASC) directed program to streamline labor intensive technical control operations and maintenance. FY 98/99 funds provide survey and engineering of specific technical controls worldwide and procure matrix switch hardware to implement the program. Matrix switches will replace manual patching panels and automate operational, administrative and testing functions in the tech control, reducing manpower and other resource requirements.</p>											

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				B. WEAPON WW TECH CON IMP PROG (WWTCIP) (BU3610)				C. MANUFACTURER NAME		D. DATE February 1997	
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99					
ID	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Matrix Switches/Equipment	A	4215	VAR	VAR									
Bill of Materials	A	1280	VAR	VAR									
Yongsan Site Prep	A	164	1	164									
Engineering Survey - Ft. Bragg	A	77	1	77									
DCO Renovation - Ft. Bragg	A	586	1	586									
Tech Control Facility (TCF) Equip - Ft. Bragg	A	181	1	181									
Automatic/Integration of Technical Controls (AITC) Equipment	A				593	VAR	VAR	697	VAR	VAR	688	VAR	VAR
AITC Engineering/Installation/Test	A	36	VAR	VAR	213	VAR	VAR	247	VAR	VAR	245	VAR	VAR
TOTAL		6539			806			944			933		

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE
B. APPROPRIATION / BUDGET ACTIVITY										February 1997
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment										
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A
Matrix Switches/Equipment FY 96 **	GENERAL SIGNAL	C/FP	CECOM	VAR *	Jul-96	VAR	VAR			
Bill of Materials FY 96 **	TOAD	WR	CECOM	VAR *	Apr-96	VAR	VAR			
Yongsan Site Prep FY 96	1ST SIGNAL BDE	MIPR	PM TS	Jan-96	Jan-96	1	164			
Engineering Survey - Ft. Bragg FY 96	SAIC	MIPR	ISEC	May-96	May-96	1	77			
DCO Renovation - Ft. Bragg FY 96	COE	MIPR	DPWE	Jul-96	Sep-96	1	586	YES	NO	
Tech Control Facility (TCF) Equip - Ft. Bragg FY 96	TOAD	WR	CECOM	Jul-96	Nov-96	1	181	YES	NO	
Automatic/Integration of Technical Controls (AITC) Equipment **	GENERAL SIGNAL	C/FP/OPT	CECOM	Feb-97	Apr-97	VAR	VAR	YES	NO	
FY 97	GENERAL SIGNAL	C/FP/OPT	CECOM	Nov-97	Jan-98	VAR	VAR	YES	NO	
FY 98	GENERAL SIGNAL	C/FP/OPT	CECOM	Nov-98	Jan-99	VAR	VAR	YES	NO	
FY 99										
AITC Engineering/Installation/Test **	IN-HOUSE	MIPR	504TH SIGNAL BN	Feb-97	Mar-97	VAR	VAR	YES	NO	
FY 97	TBS	C/FP	CECOM	Nov-97	Nov-97	VAR	VAR	YES	NO	
FY 98	TBS	C/FP	CECOM	Nov-98	Nov-98	VAR	VAR	YES	NO	
FY 99										

REMARKS:

General Signal Networks, Mount Laurel, NJ
 SAIC = Science Applications International Corp., Sierra Vista, AZ
 COE = Corps of Engineers, Savannah, GA
 DPWE = Department of Public Works and Engineering, Ft. Bragg, SC
 TOAD = Tobyhanna Army Depot

* Multiple delivery orders/award dates.
 ** Site specific.

WR = Work Requests
 PM TS = Program Manager Transmission Systems

BUDGET ITEM JUSTIFICATION SHEET									
APPROPRIATION / BUDGET ACTIVITY		DATE							
OTHER PROCUREMENT / Communications and Electronics Equipment		P-1 ITEM NOMENCLATURE							
		INFORMATION SYSTEMS (BB8650)							
		FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY		0	0	0	0	0	0	0	0
COST (in millions)		67.0	48.8	20.5	23.6	29.9	30.4	31.2	32.0

DESCRIPTION: This budget line consolidates funding for improvement/modernization of Information Systems worldwide. It encompasses nontactical telecommunications services in support of Army base operations and Information Systems for Command and Control (C2) requirements. Also, it funds acquisition of common user information systems in support of Military Construction, Army (MCA) projects.

JUSTIFICATION: The Information Systems (CONUS/Western Hemisphere) program finances upgrades to the Army's telecommunications infrastructure. It includes the MACOM Telephone Modernization Program (MTMP), an integral part of the Power Projection Command Control Communication Computer Infrastructure (P2C4I) initiative, which supports the communications requirements of deployed forces and their access to home installation sustaining base systems. The MTMP supports replacement of aging electromechanical switches with electronic digital switches to implement the Integrated Services Digital Network (ISDN) concept and insures compatibility with public networks. The Information Systems - MCA Support program finances acquisition of information systems equipment and switch expansion equipment to be installed in conjunction with military construction projects worldwide, which are not included in the MCA funding. The Information Systems - EUCOM program finances the procurement of hardware and software to replace aging communications equipment in an effort to streamline operations and maintenance costs, improve productivity and customer service, and reduce circuit costs in Europe. The Information Systems - PACOM program continues the transition to the ISDN for the Pacific Theater, which will provide intra-base information transfer capability and common data transmission in the place of costly individual stovepipe and non-standard networks.

(ID CODE A)

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				B. WEAPON INFORMATION SYSTEMS (BB8650)				C. MANUFACTURER NAME		D. DATE February 1997	
ID	CD	FY 96				FY 97				FY 98		FY 99	
		TotalCost	Qty	UnitCost	TotalCost	TotalCost	Qty	UnitCost	TotalCost	TotalCost	Qty	UnitCost	TotalCost
OPA Cost Elements		\$000	Each	\$000	\$000	\$000	Each	\$000	\$000	\$000	Each	\$000	\$000
INFORMATION SYSTEMS (CONUS/WESTERN HEM)		47824			38179	13479			17255				
INFORMATION SYSTEMS (EUCOM)		11706			384	386			379				
INFORMATION SYSTEMS (PACOM)		1614			778	829			859				
INFORMATION SYSTEMS (MCA SUPPORT)		5844			9496	5804			5097				
TOTAL		66988			48837	20498			23590				

BUDGET ITEM JUSTIFICATION SHEET										DATE
APPROPRIATION / BUDGET ACTIVITY										February 1997
OTHER PROCUREMENT / Communications and Electronics Equipment					P-1 ITEM NOMENCLATURE					INFORMATION SYSTEMS (CONUS/WESTERN HEM) (BB8700)
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		
QUANTITY	0	0	0	0	0	0	0	0		
COST (in millions)	47.8	38.2	13.5	17.3	23.4	24.0	24.6	25.3		
<p>DESCRIPTION: This budget line includes efforts in support of the MACOM Telephone Modernization Program (MTMP), which is an integral part of the Power Projection Command, Control, Communications and Computers Initiative (P2C4I). The overall objective of P2C4I is to: (1) support communication requirements of deployed forces and their access to home installation sustaining base systems; and (2) to replace Information Systems in a coordinated, synchronized, integrated manner, thereby optimizing funding/personnel resources and maximizing the operational benefits. P2C4I identifies the cooperative role and responsibility for installations in the active, direct execution of the National Military Strategy to project forces beyond the borders of the United States to anywhere in the world with little advance notice.</p> <p>The MTMP started in FY 83 to replace the old Dial Central Offices with state-of-the-art digital switches at CONUS Army installations. Repairing and maintaining deteriorating antiquated switches is not cost effective. Upgrading telecommunications equipment insures the most effective interface with existing public telecommunications networks and optimizes the development of evolving Department of the Army programs. MTMP is also assigned with the implementation of the Integrated Services Digital Network (ISDN) within the Army, thus supporting the most efficient utilization of bandwidth.</p> <p>JUSTIFICATION: FY 98/99 funds each buy one new telephone switching system based upon the HQDA approved Installation Sequence List (ISL). Programmed funds will also be used to upgrade several critical MTMP sites. The new digital switching platforms will provide the warfighter with enhanced capability to conduct power projection operations in a split base mode. Additionally, the new switches will enable sites to exploit new communications technologies into the twenty-first century.</p> <p>(ID CODE A)</p>										

OPA Cost Analysis		A. APPN/BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				B. WEAPON INFORMATION SYSTEMS (CONUS/WESTERN HEM) (BB8700)				C. MANUFACTURER NAME		D. DATE February 1997	
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99					
ID	CD	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
MACOM Telephone Modernization Program (MTMP):													
	A	43563	* 5	VAR	7938	1	7938	11962	1	11962	12988	1	12988
Digital Switching System													
	A	3106	* VAR	VAR	6059	* VAR	VAR	1517	* VAR	VAR	4267	* VAR	VAR
MTMP Options / Modifications													
	A	763	1	763									
EOC Upgrade - Ft. Bragg [FORSCOM]													
	A	392	1	392									
HQ PBX System [MEPCOM]													
	A				24182	1	24182						
DISTANCE LEARNING [DCSOPS]													
	A	47824			38179			13479			17255		
TOTAL													
* Quantity is purchased at various unit costs.													

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)									
B. APPROPRIATION / BUDGET ACTIVITY					DATE February 1997				
C. P-1 ITEM NOMENCLATURE									
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment									
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQD IF YES W/A
MACOM Telephone Modernization Program (MTMP):									
Digital Switching System									
FY 96 **	GTE	OPTION CECOM		Jan-96	VAR *	5	VAR		
FY 97	GTE	OPT/C/FP CECOM		Jan-97	VAR *	1	7938	YES	NO
FY 98	GTE	OPT/C/FP CECOM		Jan-98	VAR *	1	11962	YES	NO
FY 99	GTE	OPT/C/FP CECOM		Jan-99	VAR *	1	12988	YES	NO
MTMP Options / Modifications									
FY 96 **	GTE	OPTION CECOM		Mar-96	VAR *	VAR	VAR	YES	NO
FY 97 **	GTE / HALIFAX	OPT/C/FP CECOM		Mar-97	VAR *	VAR	VAR	YES	NO
FY 98	GTE / HALIFAX	OPT/C/FP CECOM		Mar-98	VAR *	VAR	VAR	YES	NO
FY 99 **	GTE / HALIFAX	OPT/C/FP CECOM		Mar-99	VAR *	VAR	VAR	YES	NO
EOC Upgrade - Ft. Bragg [FORSCOM]									
FY 96	NAWC	OPTION FT. MCPHERSON		Mar-96	Oct-96	1	763		
HQ PBX System [MEPCOM]									
FY 96	AMSTAR	OPTION GSA, Chicago		Jul-96	Dec-96	1	392		
DISTANCE LEARNING									
FY97									
REMARKS:									
GTE, Needham, MA NAWC = Naval Air Warfare Center, St. Ignace, MD AMSTAR, Frederick, MD * Multiple award and delivery dates throughout FY ** Site specific. Unit cost varies depending on switch size and use of new or relocated switch.									

BUDGET ITEM JUSTIFICATION SHEET										DATE
APPROPRIATION / BUDGET ACTIVITY										February 1997
OTHER PROCUREMENT / Communications and Electronics Equipment			P-1 ITEM NOMENCLATURE							
			INFORMATION SYSTEMS (EUCOM) (BB8800)							
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		
QUANTITY	0	0	0	0	0	0	0	0	0	
COST (in millions)	11.7	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	
<p>DESCRIPTION: This budget line supports communications initiatives to improve information systems throughout the European theater. Funding is required to: 1) support ongoing productivity enhancing communication initiatives throughout HQ, 5th Signal Command; and 2) replace aging communication hardware and related devices in support of Army Standard Information Management Systems (ASIMS), non-ASIMS sites for Standard Army Management Information Systems (STAMIS), and US Army Europe standard systems throughout the theater.</p> <p>JUSTIFICATION: FY 98 funds procure communication hardware with new Asynchronous Transfer Mode (ATM) technology and Fiber Optic interface. FY 99 funds buy software, providing state of the art network monitoring and problem isolation capabilities. Funding is necessary for ongoing productivity enhancing initiatives associated with data transmission and data sharing while increasing processing speeds and file transfers among common users.</p>										
(ID CODE A)										

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				B. WEAPON INFORMATION SYSTEMS (EUCOM) (BB8800)				C. MANUFACTURER NAME		D. DATE February 1997	
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99					
ID	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Communication Hardware/Software Upgrades	A	106	VAR	VAR	214	VAR	VAR	386	VAR	VAR	379	VAR	VAR
Hanau Defense Information Infrastructure	A				170	1	170						
Desert Focus Initiatives:													
-Permanent Communication Facilities	A	4255	VAR	VAR									
-Microwave Systems	A	3760	VAR	VAR									
-Switching Systems	A	1360	VAR	VAR									
-Satellite Communication (SATCOM) Terminals	A	2225	VAR	VAR									
TOTAL		11706			384			386			379		

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE	February 1997
B. APPROPRIATION / BUDGET ACTIVITY											
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				C. P-1 ITEM NOMENCLATURE							
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQD	IF YES W/A	
Communication Hardware/Software *											
FY 96	DYNAMIC CORP	OPTION	HQ USAISC	Jul-96	Sep-96	VAR	VAR				
FY 97	ALCATEL	OPTION	5TH SIGNAL CMD	Feb-97	Apr-97	VAR	VAR				
FY 98	ALCATEL	OPTION	5TH SIGNAL CMD	Jan-98	Mar-98	VAR	VAR	YES	NO		
FY 99	ALCATEL	OPTION	5TH SIGNAL CMD	Jan-99	Mar-99	VAR	VAR	YES	NO		
Hanau Defense Information Infrastructure (DII)											
FY 97	Staatliches, Hochbaumt	C/FP	5TH SIGNAL CMD	Mar-97	Apr-97	1	170				
Desert Focus Initiatives:											
Permanent Communication Facilities											
FY 96	VAR**	C/FP	CECOM/ISMA	VAR*	VAR*	VAR	VAR				
Microwave Systems											
FY 96	COE	MIPR	ARMY SIGNAL COMMAND	VAR*	VAR*	VAR	VAR				
FY 96	TBS	C/FP	CECOM/ISMA	VAR*	VAR*	VAR	VAR				
Switching Systems											
FY 96	VAR**	C/FP	CECOM/ISMA	VAR*	VAR*	VAR	VAR				
Satellite Communication (SATCOM) Terminals											
FY 96	TBS	C/FP	PM SATCOM	VAR*	VAR*	VAR	VAR				
REMARKS: Dynamic Corp, Burlington, MA ALCATEL, Dallas TX * Quantity and unit cost vary by configuration. VAR*-multiple contracts awarded/delivered throughout the year VAR**-GTE, Taunton, MA and Tobyhanna Army Depot (TOAD) PM TS-Program Manager Transmission Systems											
PM SATCOM-Program Manager Satellite Communications Systems COE-Corps of Engineers, Winchester, VA											

BUDGET ITEM JUSTIFICATION SHEET										DATE
APPROPRIATION / BUDGET ACTIVITY										February 1997
OTHER PROCUREMENT / Communications and Electronics Equipment										
P-1 ITEM NOMENCLATURE										
INFORMATION SYSTEMS (PACOM) (BB8900)										
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		
QUANTITY	0	0	0	0	0	0	0	0		0
COST (in millions)	1.6	0.8	0.8	0.9	0.9	0.9	1.0	1.0		1.0

DESCRIPTION: Information Systems (PACOM) encompasses nontactical telecommunications requirements to support Army base operations and U.S. Military Command and Control (C2) requirements in the Pacific Theater, including upgrade of fixed plant telephone systems in Korea and Japan. The upgrades of the Korea Telephone Network (KTN) and Japan Telephone Network (JTN) will modernize the Army telephone systems in the respective countries. The switch hardware and software will be upgraded to provide integrated voice and data capabilities, as well as to provide the added line capacity required to satisfy critical Korean warfighter missions.

JUSTIFICATION: The FY 98/99 funds procure software and hardware upgrades of the telephone switches at Camp Humphreys and Camp Red Cloud in Korea and Camp Zama in Japan. These sites are the top priority of the Eighth U.S. Army and U.S. Army Japan. The upgrades will provide voice, data, and video services over a single Integrated Services Digital Network (ISDN) connection. Additionally, the upgraded switches will operate more efficiently, providing a cost avoidance for the Department of Defense.

(ID CODE A)

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				B. WEAPON INFORMATION SYSTEMS (PACOM) (BB8900)				C. MANUFACTURER NAME		D. DATE February 1997					
OPA Cost Elements	ID CD	FY 96		FY 97		FY 98		FY 99		TotalCost \$000	UnitCost \$000	Qty Each	TotalCost \$000	UnitCost \$000	Qty Each	TotalCost \$000	UnitCost \$000
		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each								
Korean Telephone Network (KTN) And Japan Telephone Network Switch Upgrades		760	VAR	VAR	778	VAR	VAR	829	VAR	VAR	859	VAR	VAR	VAR	VAR	VAR	VAR
C4 Korean Initiatives: Network Management System		729	VAR	VAR													
Defense Red Switch Network Black Switch [EUSA]		125	VAR	VAR													
TOTAL		1614			778			829			859						
NOTE: The unit cost varies because it's based on the size differences of individual switches (300 - 4,000 line size) and also inflation factors.																	

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										
B. APPROPRIATION / BUDGET ACTIVITY					DATE		February 1997			
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment										
C. P-1 ITEM NOMENCLATURE										
INFORMATION SYSTEMS (PACOM) (BB9900)										
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A
Korean Telephone Network (KTN) And Japan Telephone Network Switch Upgrades FY 96 FY 97 FY 98 FY 99	GTE	C/FP/OPT	CECOM	Jul-96	Mar-97	1	760			
	GTE	C/FP/OPT	CECOM	Mar-97	Dec-97	1	778			
	GTE	C/FP/OPT	CECOM	Jan-98	Jul-98	1	829	YES	NO	
	GTE	C/FP/OPT	CECOM	Jan-99	Jul-99	1	859	YES	NO	
C4 Korean Initiatives: Network Management System FY 96	BBN	C/FP	CECOM	Jul-96	Oct-96	1	729			
DRSN Black Switch [EUSA] FY 96	SMALC	MIPR	CECOM	Jun-96	Jun-96	1	125			
REMARKS:										
KTN = Korean Telephone Network DRSN = Defense Red Switch Network SMALC=Sacramento Air Logistics Center, Sacramento, CA EUSA = Eighth US Army GTE, Needham Heights, MA BBN, Cambridge, MA										

BUDGET ITEM JUSTIFICATION SHEET										DATE	February 1997
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE					INFORMATION SYSTEMS (MCA SUPPORT) (BB1400)				
OTHER PROCUREMENT / Communications and Electronics Equipment		FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		
QUANTITY		0	0	0	0	0	0	0	0		
COST (in millions)		5.8	9.5	5.8	5.1	5.1	5.0	5.1	5.3		

DESCRIPTION: The program provides state-of-the-art major information system equipment such as integrated voice/data switches; Tier II computers (i.e., common user, multiple-purpose assets supporting Army installations and/or organizations); voice/data switch expansions; common user LAN transport equipment; and basic telephone instruments. This equipment is to be installed in conjunction with Military Construction, Army (MCA) projects. Included in this program are funds for the renovation of the facility housing the National War College at Fort McNair. The Army is executive agent for the National Defense University (NDU), which is renovating Building 60 at Fort McNair, to correct longstanding over-crowding and failing/antiquated mechanical systems. Classrooms are 1960's vintage or older and cannot accommodate modern electronic systems without major improvements to the building's infrastructure. The OPA funded information systems are critical to NDU's ability to comply with academic standards, improve the quality and professionalism of instructional systems, meet Congressional mandates for increased faculty/student ratio, and support growing student loads.

JUSTIFICATION: FY 98/99 funds support information systems requirements associated with approved MCA projects. Funding is applied to specific projects based upon mission priority, timing of construction schedules, beneficial occupancy dates (BOD), and minimum lead time required for acquisition and installation of associated information system equipment. Funding supports regulatory requirements as outlined in the U.S. Army Information Systems Command (USAISC) and U.S. Army Corps of Engineers (USACE) Memorandum of Agreement, dated 1 June 1986, along with other applicable U.S. Army Directives. These funds are essential to insure that information systems are installed in sync with Corps of Engineer construction schedules. FY 98 funding supports twenty-two (22) approved projects. FY 99 funding supports twenty-eight (24) approved projects.

FY 98 funding also buys information systems associated with the renovation of the structure housing the National War College at the NDU. The National War College systems will provide capability for state-of-the-art academic instruction using interactive strategic simulation, modern interactive data and voice communication, and multimedia presentations.

OPA Cost Analysis				A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				B. WEAPON INFORMATION SYSTEMS (MCA SUPPORT) (BB1400)				C. MANUFACTURER NAME Numerous (see 5a)		D. DATE February 1997	
OPA Cost Elements				FY 96		FY 97		FY 98		FY 99					
ID	CD			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
				\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
MCA PROJECTS															
	A	Telephone Switch		4532	2	2266	1940	1	1940	933	1	933			
	A	Switch Upgrades		126	7	18	1413	30	47	854	19	45	1818	21	87
	A	Telephone System		82	14	6	240	47	5	380	21	18	508	22	23
	A	Contract Engineering		600	1	600	600	1	600	800	1	800	800	1	800
	A	LAN Transport System		17	3	6	1770	30	59	293	15	20	1971	16	123
	A	Information System Upgrade Eisenhower Hall, Fort McNair (NDU)		487	1	487	3533	1	3533	2544	1	2544			
TOTAL				5844			9496			5804			5097		

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE
B. APPROPRIATION / BUDGET ACTIVITY										February 1997
C. P-1 ITEM NOMENCLATURE										
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment										
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQD	IF YES W/A
Telephone Switch										
FY 96	VAR*	C/FP	ISEC-CONUS	VAR	VAR	2	2266			
FY 97	TBS	C/FP	ISEC-CONUS	VAR	VAR	1	1940	YES	NO	
FY 98	TBS	C/FP	ISEC-CONUS	VAR	VAR	1	933	YES	NO	
Switch Upgrades										
FY 96	VAR*	OPTION**	ISEC-CONUS	VAR	VAR	7	18			
FY 97	TBS	OPTION**	ISEC-CONUS	VAR	VAR	30	47	YES	NO	
FY 98	TBS	OPTION**	ISEC-CONUS	VAR	VAR	19	45	YES	NO	
FY 99	TBS	OPTION**	ISEC-CONUS	VAR	VAR	21	87	YES	NO	
Telephone System										
FY 96	VAR*	C/FP	ISEC-CONUS	VAR	VAR	14	6			
FY 97	TBS	C/FP	ISEC-CONUS	VAR	VAR	47	5	YES	NO	
FY 98	TBS	C/FP	ISEC-CONUS	VAR	VAR	21	18	YES	NO	
FY 99	TBS	C/FP	ISEC-CONUS	VAR	VAR	22	23	YES	NO	
Contract Engineering										
FY 96	SAIC	C/FP	ISEC-CONUS	VAR	VAR	1	600			
FY 97	SAIC	C/FP	ISEC-CONUS	VAR	VAR	1	600	YES	NO	
FY 98	SAIC	C/FP	ISEC-CONUS	VAR	VAR	1	800	YES	NO	
FY 99	SAIC	C/FP	ISEC-CONUS	VAR	VAR	1	800	YES	NO	
REMARKS:										
* Site Specific. Multiple contracts are awarded to multiple contractors throughout the year based on Corps of Engineers contracts, construction start dates, and Beneficial Occupancy Dates.										
** Option to existing C/FP contracts										
VAR: ISEC-CONUS supports numerous projects awarded by the Corps of Engineers (COE) throughout the FY. Unit costs vary by project.										

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										
B. APPROPRIATION / BUDGET ACTIVITY					DATE			February 1997		
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment					C. P-1 ITEM NOMENCLATURE					
INFORMATION SYSTEMS (MCA SUPPORT) (BB1400)										
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQD	IF YES W/A
LAN Transport System										
FY 96	VAR*	C/FP	ISEC-CONUS	VAR	VAR	3	6			
FY 97	TBS	C/FP	ISEC-CONUS	VAR	VAR	30	59	YES	NO	
FY 98	TBS	C/FP	ISEC-CONUS	VAR	VAR	15	20	YES	NO	
FY 99	TBS	C/FP	ISEC-CONUS	VAR	VAR	16	123	YES	NO	
Eisenhower Hall, Fort McNair (NDU) Information System Upgrade										
FY 96	Ellerby Beckett, Inc.	C/FP	NDU	Sep-96	Sep-96	1	487			
FY 97	TBS	C/FP	COE	Nov-96	Apr-97	1	3533	YES	NO	
FY 98	TBS	C/FP	COE	Nov-97	Apr-98	1	2544	YES	NO	
REMARKS: * Site Specific. Multiple contracts are awarded to multiple contractors throughout the year based on Corps of Engineers contracts, construction start dates, and Beneficial Occupancy Dates. VAR: ISEC-CONUS supports numerous projects awarded by the Corps of Engineers (COE) throughout the FY. Unit costs vary by project. Ellerby Beckett, Inc., Washington DC										

BUDGET ITEM JUSTIFICATION SHEET										DATE
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE								
OTHER PROCUREMENT / Communications and Electronics Equipment		DEFENSE MESSAGE SYSTEM (DMS) (BU3770)								
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		
QUANTITY	0	0	0	0	0	0	0	0		
COST (in millions)	7.7	5.8	8.0	8.1	10.1	3.2	3.3	3.4		
<p>DESCRIPTION: The Defense Message System (DMS) provides regional, installation level and user interfaces to DOD record communications services Armywide. The program is currently transitioning from Phase I to Phase II. The AUTODIN Mail Server (AMS) Desktop Interface to Automatic Digital Network (AUTODIN) Host (DINAH), Automated Special Security Information System Terminal (ASSIST) and other AUTODIN terminals are DMS Phase I actions. Phase I is completed. Phase II focuses on the full scale implementation of Consultative Committee on International Telegraphy and Telephony (CCITT) standardized X.400/X.500 messaging products and the phase down of the AUTODIN system. This process began in FY 95 and will continue under current funding levels through FY 00. Installation locations have been identified, and installation/implementation staffing has been allocated. The new message system will feature: (1) A user operated service concept, (2) a single form of message service using a simplified message format, (3) Multilevel secure processing, and (4) Automated local distribution via information transfer networks.</p> <p>JUSTIFICATION: FY 98 funds will be used to continue the procurement of DMS compliant components from the Air Force sponsored DMS Government Open System Interconnection Profile (GOSIP) contract and the National Security Agency (NSA) Multilevel Information Systems Security Initiative (MISSI) contracts. These components consist of the user Agent e-mail software package, the Profiling User Agent, Message Store, Fortezza cards, and Personal Computer Memory Card International Association (PCMCIA) devices. FY 99 procurements will be expanded to include software for the Trusted Computer/Trusted Workstations (TC/TW). Approximately 25-30 sites will transition to DMS GOSIP per year, depending on availability of resources. As DMS GOSIP is phased in, AUTODIN will be phased out. The phase-out of the AUTODIN Switching Center (ASC) is expected to be completed by FY 00.</p>										

(ID CODE A)

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				B. WEAPON DEFENSE MESSAGE SYSTEM (DMS) (BU3770)				C. MANUFACTURER NAME		D. DATE February 1997	
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99					
ID	CD	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
DMS Government Open System Interconnect Profile (GOSIP) Components		7214	VAR	VAR	3113	VAR	VAR	4420	VAR	VAR	5383	VAR	VAR
Multilevel Information Systems Security Initiative (MISSI) Components					2672	VAR	VAR	3542	VAR	VAR	2714	VAR	VAR
Automated Gateway Messaging Sys (AGMS)		515	VAR	VAR				7962			8097		
TOTAL		7729			5785								

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)											DATE	February 1997
B. APPROPRIATION / BUDGET ACTIVITY		OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				C. P-1 ITEM NOMENCLATURE					DEFENSE MESSAGE SYSTEM (DMS) (BU3770)	
LINE ITEM / FISCAL YEAR		CONTRACTOR AND LOCATION		CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQD	IF YES W/A
DMS Government Open System Interconnect Profile (GOSIP) Components ** FY 96 FY 97 FY 98 FY 99		LOCKHEED - MARTIN LOCKHEED - MARTIN LOCKHEED - MARTIN LOCKHEED - MARTIN		C/FP OPTION OPTION OPTION	USAF USAF USAF USAF	Jul-96 Nov-96 Apr-98 Apr-99	VAR *	VAR	VAR			
							VAR *	VAR	VAR	YES	NO	
							VAR *	VAR	VAR	YES	NO	
							VAR *	VAR	VAR	YES	NO	
Multilevel Information Systems Security Initiative (MISSI) Components FY 97 FY 98 FY 99		SECURE COMPUTER CORP SECURE COMPUTER CORP SECURE COMPUTER CORP		C/FP OPTION OPTION	NSA NSA NSA	May-97 May-98 May-99	VAR *	VAR	VAR	YES	NO	
							VAR *	VAR	VAR	YES	NO	
							VAR *	VAR	VAR	YES	NO	
							Automated Gateway Messaging Sys (AGMS) ** FY 96		GTE		C/FP	NAVY
REMARKS:												
Lockheed Martin - Manassas, VA Secure Computer Corporation - Roseville, MN GTE - Chantilly, VA NSA (National Security Agency) - Ft. Meade, MD * Multiple awards & delivery dates throughout FY ** Site specific												

BUDGET ITEM JUSTIFICATION SHEET										DATE
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE								
OTHER PROCUREMENT / Communications and Electronics Equipment		LOCAL AREA NETWORK (LAN) (BU4165)								
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		
QUANTITY	0	0	0	0	0	0	0	0		
COST (in millions)	45.2	17.7	17.6	14.7	9.4	9.4	9.7	9.9		

DESCRIPTION: The Common User Installation Transport Networks (CUITN), fielded under this program, are part of the Installation Information Transfer Systems Improvement Program (IITSIP) designed to improve data communications transfer capabilities at Army installations. This program provides state-of-the-art, high-speed, common-user, data backbone networks and includes the hardware, software and interfaces to both site internal and external systems, networks and terminals, and turnkey approach to the implementation of these networks. The backbone network provides the capability for connections to site workstations, data processing installations, mainframes, and networks while providing access to gateways on the site and the Defense Information Systems Network (DISN) Wide Area Network (WAN) external to the site. The Army is currently utilizing outdated systems, obsolete overstressed telephone resources, and expensive non-standard interim measures to satisfy the increasing data communications requirements. The installation backbone CUITN program will ensure a smooth transition to the Army's long-term objective architecture. The Army has increased the number of computers in use at installations Army wide. Fielding of these systems and workstations coupled with changes to and fielding of interactive databases for Standard Army Management Information Systems (STAMIS), which require the movement of large amounts of data quickly, has placed the need for increased services on installation information transfer systems. Users, whether in garrison or deployed in support of CONUS-Centric Power Projection Strategy, require access to databases, Data Processing Centers, other networks on their home installation, and common user capabilities of the DISN. This expansion of data transfer has overloaded the installation data transfer capabilities. To satisfy installation data transfer requirements, it is necessary to upgrade the base communications infrastructure via replacement/upgrade of switches/cable facilities and procurement of CUITN backbone networks. The CUITN backbone will complement the Integrated Services Digital Network (ISDN) when this capability becomes available. The CUITN backbone provides the means for transferring information within the confines of the Army's posts, camps and stations and will be provided by a mix of resources, depending on the switching technology used at an installation, the installation's information transfer requirements, and availability of funds. The technical make-up of each backbone will be determined on a case-by-case basis and may have gateways to the DISN, tenant organizations (including tactical units), commercial and other common user networks. Acquisition of CUITN installation backbones will conform to DOD policy to pursue migration of defense data networks to support the Open Systems Interconnection (OSI) protocols as identified by the Government OSI Profile (GOSIP).

The CUITN Program is an integral part of the Power Projection Command Control Communications Computer Infrastructure (P2C4I) initiative. The overall objective of P2C4I is to (1) support communications requirements of deployed forces and their access to home installation sustaining base systems, and (2) emplace Information Systems in a coordinated, synchronized, integrated manner; thereby, optimizing funding/personnel resources and maximizing the operational benefits. P2C4I identifies the cooperative role and responsibility for installations in the active, direct execution of the National Military Strategy to project forces beyond the borders of the United States to anywhere in the world with little advance notice.

BUDGET ITEM JUSTIFICATION SHEET										DATE	February 1997
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE									
OTHER PROCUREMENT / Communications and Electronics Equipment		LOCAL AREA NETWORK (LAN) (BU4165)									
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003			
QUANTITY											
COST (in millions)											
<p>JUSTIFICATION: FY 98 funds engineer, furnish and install backbone networks at 2 sites on the HQDA approved Installation Sequence List (ISL) and continue implementation at 5 sites. FY 99 funds engineer, furnish and install backbone networks at 2 sites on the ISL and continue implementation at 2 sites. The CUITN effort is a continuing project. Installations to be upgraded are determined by the number and locations completed in the prior year. LAN installation is critical to support the ever increasing data transfer requirements attributable to actions supporting key Army wartime doctrines and the drawdown of Conventional Forces, Europe. The Army is currently using outdated systems, obsolete, overstressed telephone resources, and expensive, non-standard measures to satisfy the increasing data communications requirements. High speed, backbone LANs will be installed to modernize site data transport capability, improve connectivity, standardize transport networks, and increase capacity for key Army systems such as Defense Message System (DMS), Installation Support Module (ISM), Joint Computer-Aided Acquisition and Logistics System (JCALS), Combined Health Care System (CHCS), Reserve Component Automation System (RCAS) and certain legacy Sustaining Base Information Service (SBIS) applications.</p>											

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										
B. APPROPRIATION / BUDGET ACTIVITY					DATE February 1997					
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment					C. P-1 ITEM NOMENCLATURE LOCAL AREA NETWORK (LAN) (BU4165)					
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY Each	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A
Installation Backbone Local Area Network										
FY 96 * **	AT&T, LORAL, EDS	C/FP	CECOM	Nov-95	Jun-96	4	VAR			
FY 97 * **	LUCENT, EDS, LOCKHEED, GTE	C/FP	CECOM	Dec-96	Jul-97	2	VAR	YES	NO	
FY 98 * **	LUCENT, EDS, LOCKHEED, GTE	C/FP	CECOM	Dec-97	Jul-98	2	VAR	YES	NO	
FY 99 * **	LUCENT, EDS, LOCKHEED, GTE	C/FP	CECOM	Dec-98	Jul-99	2	VAR	YES	NO	
REMARKS:										
AT&T, Greensboro, NC EDS = Electronic Data Systems Corp, Herndon, VA LORAL = Loral Federal Systems, Springfield, VA GTE = GTE Government System Corp, Needham, MA Lockhead Martin Federal Systems, Owego, NY Lucent Technologies, Greensboro, NC										
* Multiple awards and deliveries throughout the year. ** Site specific / unique. Configuration varies by site.										

BUDGET ITEM JUSTIFICATION SHEET										DATE
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE								
OTHER PROCUREMENT / Communications and Electronics Equipment		PENTAGON INFORMATION MGT AND TELECOM (BQ0100)								
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		
QUANTITY	0	0	0	0	0	0	0	0		
COST (in millions)	2.2	59.8	28.2	40.1	56.5	40.3	41.3	42.4		

DESCRIPTION: This budget line funds for the Pentagon Telecommunications Center (PTC) and the Pentagon Renovation Information Management and Telecommunications Project. The Pentagon Telecommunications Center System (PTCS) provides, by Congressional mandate, General Service (GENSER) message origination and termination services for the headquarters of the military services, the Joint Chiefs of Staff, the Office of the Secretary of Defense, and many other DOD/non-DOD subscribers throughout the National Capital Region. In addition, the PTCS provides needed Automated Digital Network (AUTODIN) gateway access to civilian agencies, including the White House, Central Intelligence Agency and Departments of State, Energy, and Commerce. For the subscribers served, the system provides message services for command and control, crisis management, operational and administrative functions.

The Pentagon Renovation Project is an on-going construction project directed by Office of the Secretary of Defense and implemented by a Resident Program Manager, Corps of Engineers (COE), and a Project Manager for Information Management & Telecommunications (PM, IM&T), U.S. Army Information Systems Command (USAISC). PM, IM&T is responsible for relocating existing IM&T facilities while sustaining operations and implementing a new Pentagon IM&T physical and electronic infrastructure in concert with COE construction. Relocation includes moving the National Military Command Center (NMCC)/Service Operation centers, consolidating seven Telecommunications Control facilities, collocating 11 Automated Data Processing (ADP) facilities to two facilities, and consolidating 15 command and control, tactical, and administrative telephone switches to 8. The IM&T infrastructure includes the installation of an unclassified/classified backbone and a Network and Systems Management Center. The implementation of IM&T requirements is integral to each phase of the Pentagon Renovation construction program due to the synchronization of both programs. The Pentagon Renovation IM&T Project will provide modem integrated information and telecommunication capabilities to all levels of command in the Pentagon including OSD, the Joint Staff, the Army, Navy, Marine Corp, Air Force and Defense Agencies.

JUSTIFICATION: PENTAGON TELECOMMUNICATIONS CENTER: FY 98/99 funds procure Defense Message System (DMS) equipment platforms and electronic message delivery systems. The objective is to provide secure and reliable message delivery to the customers' desktop. The rate at which DMS support technology evolves and DMS migration and deployment strategy is adopted, will dictate the types and quantities of electronic message delivery systems procured. DMS will be mandatory once the system is fully implemented. DMS will be the only system available for Army customers who require messaging services, and it is currently being developed as a building-wide network in conjunction with the Pentagon Renovation Project. Programmed funding will equip a user community, which includes the highest levels of the Army staff and key decision making personnel, with the tools necessary to use DMS. Additionally, due to the ongoing Pentagon Renovation Project, the PTCS will be required to provide communication to those customers moving outside the Pentagon during renovation.

BUDGET ITEM JUSTIFICATION SHEET										DATE	February 1997
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE					PENTAGON INFORMATION MGT AND TELECOM (BQ0100)				
OTHER PROCUREMENT / Communications and Electronics Equipment		FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		
QUANTITY											
COST (in millions)											

JUSTIFICATION (Continued):

PENTAGON IM&T PROJECT: The Deputy Secretary of Defense directed Pentagon Renovation Program delay has resulted in some acquisition postponement from FY97 to FY99 and accelerated additional expenditures for basement relocation and buildout in FY97. FY 98/99 funds procure hardware, such as servers, workstations and management software to build out Phase II of the Network and Systems Management Center, which manages the Unclassified and Classified Backbones. Also, funding will procure equipment to fulfill the parallel operation requirements necessary to establish initial service in support of Command/Ops Centers equipment and installation into the Pentagon basement. A portion of this program will also upgrade and refurbish an existing command and control switch, purchase equipment to fulfill an Intelligence switching system requirement and a Digital Conferencing Switching System for the users in the Basement to satisfy the requirements of the approved Total Switch Architecture. Purchase of equipment such as data switches, routers, media and installation of these will continue for the Unclassified/Classified backbone infrastructure in the basement. To support the consolidation and relocation of Technical Control Facilities in the Basement, equipment will be purchased and retermination of circuits will begin.

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			B. WEAPON PENTAGON INFORMATION MGT AND TELECOM (BQ0100)			C. MANUFACTURER NAME Numerous (see 5a.)			D. DATE February 1997	
OPA		FY 96			FY 97			FY 98			FY 99	
Cost Elements		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each
Electronic Message Delivery Systems AUTODIN Gateway Mail Server COMTEN Front End Processor	A	100	VAR	VAR	778	*VAR	VAR	570	*VAR	VAR	2048	*VAR
	A	275	10	28								
	A	1850	VAR	VAR								
Pentagon Renovation IM&T Unclassified Backbone, Basement Classified Backbone, Basement Command/OpsCenters Equip/Install Network & Sys Mgmt Ctr HW/SW, Install Upgrade/Install Primary Red Switch Consolidated Tch Cntrl Equip/Reform Digital Conferencing Switching System Swing Space Equip/Install Intelligence Switching System Equip NSMC H/W, SW, Install Unclassified Backbone Wedge 1 Consolidated Tech Cntrl Equip/Install Consolidated Tech Cntrl Reformation of Circuits Optical Remote Switch Modules Secondary Black/Red Switch	A				16200	VAR	VAR	3200	VAR	VAR		
	A				12128	VAR	VAR	2086	VAR	VAR		
	A				8992	VAR	VAR	3103	VAR	VAR		
	A				2575	VAR	VAR					
	A				3560	1	3560					
	A				4732	VAR	VAR					
	A				3205	1	3205					
	A				4406	VAR	VAR					
	A				3250	VAR	VAR					
	A							2440	VAR	VAR	34593	VAR
TOTAL	A	2225			59826			28249			40071	

*Upgrades will be site specific, resulting in various unit costs and quantities.

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE
B. APPROPRIATION / BUDGET ACTIVITY										February 1997
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment										
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQD	IF YES W/A
Electronic Message Delivery Systems										
FY 96	Navy	MIPR	SAM	Jun-96	Sep-96	VAR	VAR	VAR	No	
FY 97	Air Force	MIPR	SAM	Dec-96	Feb-97	VAR	VAR	Yes	No	
FY 98	Air Force	MIPR	SAM	Dec-97	Feb-98	VAR	VAR	Yes	No	
FY 99	Air Force	MIPR	SAM	Dec-98	Feb-99	VAR	VAR	Yes	No	
AUTODIN Gateway Mail Server										
FY 96	WHS Real Estate & Facilities	MIPR	PM Switch Systems	Jun-96	Sep-96	10	28			
COMTEN Front End Processor										
FY 96	AT&T/NCR	C/FP/OPT	DSS-W	Jul-96	Sep-96	VAR	VAR			
PENTAGON IM&T UPGRADE										
Unclassified Backbone, Basement										
FY 97	Bell Atlantic	C/FP	DSS-W	Nov-96	Dec-96	VAR	VAR	Yes	No	
FY98	Bell Atlantic	C/FP	DSS-W	Nov-97	Jan-98	VAR	VAR	Yes	No	
Classified Backbone, Basement										
FY 97	Bell Atlantic	C/FP	DSS-W	Nov-96	Dec-96	VAR	VAR	Yes	No	
FY98	Bell Atlantic	C/FP	DSS-W	Nov-97	Jan-98	VAR	VAR	Yes	No	
Command/Ops Ctrs Relocations										
FY 97	SRA	C/FP	Hanscom AFB	Jan-97	Mar-97	VAR	VAR	Yes	No	
FY98	Navy	MIPR	PM IM&T	Oct-97	Jan-98	VAR	VAR	Yes	No	
Network & Sys Mgmt Ctr HW/SW, Install										
FY 97	PRC	C/FP	DSS-W	Feb-97	Apr-97	VAR	VAR	Yes	No	
REMARKS: *Upgrades will be site specific, resulting in various unit costs and quantities.										
SAM = Single Agency Manager AT&T/NCR Federal Systems Division - Rockville, MD. WHS Real Estate & Facilities, WASH DC DSSW = Defense Supply Service-Washington										

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)											DATE	February 1997	
B. APPROPRIATION / BUDGET ACTIVITY			OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				C. P-1 ITEM NOMENCLATURE					PENTAGON INFORMATION MGT AND TELECOM (B00100)	
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A			
Upgrade/Install Primary Red Switch FY 97	ESI	C/FP	SM-ALC	Feb-97	Apr-97	1	3560	Yes	No				
Consolidated Tech Cntrl Equip/Re term FY97	NET	C/FP	DISA	Nov-96	Jan-97	VAR	VAR	Yes	No				
Digital Conferencing Switching System FY97	ASC	MIPR	PM, IM&T	Feb-97	Mar-97	1	3205	Yes	No				
Swing Space Equip/Install FY97	Bell Atlantic	C/FP	DSS-W	Nov-96	May-97	VAR	VAR	Yes	No				
Intelligence Switching System Equip FY97	TBS	C/FP	DSS-W	Feb-97	May-97	1	3250	Yes	No				
NSMC HW/SW, Install FY98	TBS	C/FP	VAR*	Jan-98	Mar-98	VAR	VAR	Yes	No				
Unclass/Class Backbone Wedge 1 FY98	TBS	C/FP/OP	DSS-W	Dec-97	Mar-98	VAR	VAR	Yes	No				
FY99	TBS	C/FP/OP	DSS-W	Nov-98	Jan-99	VAR	VAR	Yes	No				
Tech Control Equip/Install FY98	TBS	C/FP	DSS-W	Feb-98	Apr-98	VAR	VAR	Yes	No				
REMARKS:											*Procurement is accomplished primarily via standard requirements contracts and by various contracting offices, resulting in multiple awards throughout the fiscal year.		
											DISA = Defense Information Systems Agency DSSW = Defense Supply Service-Washington SM-ALC = Sacramento Air Logistics Center, Sacramento, CA NET = Network Equipment Technologies, Rockville, MD ESI = Electro Space Inc., Richardson, TX		

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE
B. APPROPRIATION / BUDGET ACTIVITY										February 1997
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment										
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY Each	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A
Tech Control Return of Circuits FY 98 FY 99	NET NET	C/FP C/FP	DISA DISA	Feb-98 Feb-99	Apr-98 Apr-99	1 VAR	4750 VAR	Yes Yes	No No	
Optical Remote Switch Modules FY 98	Bell Atlantic	C/FP	DSS-W	Nov-97	Jan-98	6	1200	Yes	No	
Secondary Black/Red Switch FY99	ESI	C/FP	SM-ALC	Jan-99	Mar-99	1	2800	Yes	No	
REMARKS:										

BUDGET ITEM JUSTIFICATION SHEET										DATE
APPROPRIATION / BUDGET ACTIVITY										February 1997
OTHER PROCUREMENT / Communications and Electronics Equipment					P-1 ITEM NOMENCLATURE					FOREIGN COUNTERINTELLIGENCE PROG (FCI) (BK5282)
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		
QUANTITY	0	0	0	0	0	0	0	0	0	
COST (in millions)	0.5	2.1	3.9	0.9	1.9	0.9	0.9	0.9	0.9	

CLASSIFIED PROGRAM: INFORMATION WILL BE PROVIDED UPON REQUEST.

BUDGET ITEM JUSTIFICATION SHEET										DATE	February 1997
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE									
OTHER PROCUREMENT / Communications and Electronics Equipment		GENERAL DEFENSE INTELL PROG (GDIP) (BD3900)									
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003			
QUANTITY	0	0	0	0	0	0	0	0	0		
COST (in millions)	24.2	22.8	18.9	21.1	22.2	25.1	23.8	24.2			

CLASSIFIED PROGRAM. INFORMATION WILL BE PROVIDED UPON REQUEST

BUDGET ITEM JUSTIFICATION SHEET										DATE
APPROPRIATION / BUDGET ACTIVITY										February 1997
OTHER PROCUREMENT / Communications and Electronics Equipment										
P-1 ITEM NOMENCLATURE										
ITEMS LESS THAN \$2.0M (INTEL SPT)-TIARA (BL5278)										
QUANTITY	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	2001	FY 2002	FY 2003		
	0	0	0	0	0	0	0	0		
COST (in millions)	2.2	9.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
<p>DESCRIPTION: This line supports intelligence related (TIARA and non-TIARA) programs and activities for training Cryptologic, Signals Intelligence (SIGINT), Electronic Warfare (EW), and Imagery Intelligence (IMINT) skills. Funds will: upgrade devices to maintain commonality across similar systems; continue development and exploration of transferability of skill among UNIX-based program workstations; enable a seamless learning environment which facilitates time-shifted learning, self-paced study, and participation in realistic synthetic environments. New procedures and environments for training will enable students to work on real-world products and operations in support of the field Army. Students in one class will be able to team with students in another class or course in a common networked environment. All training devices should be built to a common simulation data architecture so they can use common data feeds and participate in virtual exercises. Simulations can also be delivered in target languages.</p> <p>JUSTIFICATION: FY97 supports the following requirements: completes transition of MI Simulation Center to full DIS compliance; completes transition of SCL training LAN capabilities to full integration with JWICS Intellink; initiates acquisition of CI/HUMINT Automated Training System (CHATS); integrates all officer unclassified training material into a common software environment with standardized hardware; provides every instructor with a common software environment and plug-in networks available in classified and unclassified classrooms to present instruction and to handle training administration; obtains standardized low end multimedia presentation tools for both AC and RC; develops a high-speed path for all students and instructors to an industry on-line services provider; SUN Microsystems support of SIGINT Analyst training for program such as ASAS and TROJAN; imagery analyst training capabilities which mirror national imagery systems for TENCAP.</p>										

BUDGET ITEM JUSTIFICATION SHEET										DATE	February 1997
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE									
OTHER PROCUREMENT / Communications and Electronics Equipment		ALL SOURCE ANALYSIS SYS (ASAS) (TIARA) (KA4400)									
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003			
QUANTITY				2	5	6	5	5			
COST (in millions)	10.3	12.3	7.8	25.3	57.2	65.8	59.1	49.5			

(U) DESCRIPTION: The All Source Analysis System (ASAS) provides US Army commanders at echelons above corps through battalion a standard all source intelligence processing/reporting system and provides commanders the means for gaining a timely and comprehensive understanding of Opposing Force (OPFOR) deployments, capabilities, and potential courses of action. The ASAS is a ground based, mobile intelligence processing system designed to provide automated intelligence support to the combat commander in collection management, targeting and situation analysis, single and all source processing and reporting, electronic warfare and operational security as well as support to the generation of intelligence products in those areas. The ASAS program is an evolutionary development effort consisting of three blocks that are designed to produce an automated battlefield intelligence fusion system that fully satisfies Army Operational Requirements. The system interfaces with selected national, joint, and theater intelligence assets, adjacent/higher/lower military intelligence processors and sensors, Army Battle Command System (ABCS), and organic deployed Intelligence/Electronic Warfare (IEW) teams and assets. The ASAS also is a user of terrain and weather data. The ASAS system uses standard joint and Army protocols and message formats to interface with forward deployed sensors/teams, intelligence processors and joint/national/Army C3I systems.

In March 1994, the Vice Chief of Staff, Army directed that an accelerated fielding of the ASAS capability across the force (including all Army Military Intelligence units and National Guard Enhanced Readiness Brigades) be accomplished by FY99. This accelerated fielding, commonly called ASAS-Extended, is being accomplished by issuing ASAS software operating on Non-Developmental Item (NDI) commercial off-the-shelf (COTS) common Hardware/ software (CHS-2) to provide an ASAS capability to units not receiving the 12 previously procured ASAS Block I. ASAS-Extended is based on a modular approach which allows for incremental enhancements of ASAS capabilities using the fielded ASAS baseline and by leveraging the traditional acquisition successes of ASAS Block I. Combining these enhancements with relatively low cost NDI equipment, and tailoring the existing training and maintenance support structure, units can incrementally build to a full ASAS capability, as resources permit. ASAS supports the battlefield commander warfighting decisions by providing timely enemy situational awareness

(U) JUSTIFICATION: FY 98 and FY 99 funding is required to replace selected aging Block I workstations with CHS-2 workstations and enhanced software; support digitization; to procure 6 ASAS-Extended unit sets in FY 98 and 4 ASAS-Extended unit sets in FY 99. FY98 and FY99 funding will also be used to fix the Year 2000 (Y2K) problem in the ASAS Communication Control Set and Compartmented ASAS Message Processing System.

Identification Code: A

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				B. WEAPON ALL SOURCE ANALYSIS SYS (ASAS) (TIARA) (KA4400)				C. MANUFACTURER NAME See P-5A		D. DATE February 1997	
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99					
ID	CD	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
1. ASAS-Extended Systems and Modules	A	1974	6	329	2632	8	329	1974	6	329	1316	4	329
2. Hardware: ASAS Modules	A	1500	*	VAR	4850	*	VAR	1415	*	VAR	16666	**	
3. Project Management Administration		1239			1300			1339			1379		
4. Engineering Support													
5. Fielding		2438			2532			2047			3866		
6. Interim Contractor Support		3126			968			997			2029		
7. Other													
* Represents Common Hardware/software incrementally procured to replace the aging Block I workstations and upgrade with Block II software													
**Quantity changed to reflect planned program. Funds will be used for fielding of ASAS RWS and comms upgrade to eliminate Y2K Problem.													
TOTAL		10277			12282			7772			25256		

* Represents Common Hardware/software incrementally procured to replace the aging Block I workstations and upgrade with Block II software

**Quantity changed to reflect planned program. Funds will be used for fielding of ASAS RWS and comms upgrade to eliminate Y2K Problem.

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										
B. APPROPRIATION / BUDGET ACTIVITY					DATE		February 1997			
C. P-1 ITEM NOMENCLATURE										
ALL SOURCE ANALYSIS SYSTEM (ASAS)(TIARA)										
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A
ASAS-Extended Systems and Modules/FY96	GTE Taunton, MA CMI Woodland Hills, CA	C/FP CP/AF	CECOM ARL	Feb-96 Jun-96	Sep-96 Dec-96	12 6	50 230	Y Y	N/A N/A	N/A N/A
ASAS-Extended Systems and Modules/FY97	GTE Taunton, MA CMI Woodland Hills, CA	C/Option CP/AF	CECOM ARL	Nov-96 Nov-96	Jun-97 May-97	16 8	50 230	Y Y	N/A N/A	N/A N/A
Hardware: ASAS Modules/97	GTE Taunton, MA	C/Option	CECOM	Dec-96	Jul-97	84	54	Y	N/A	N/A
ASAS-Extended Systems and Modules/FY98	GTE Taunton, MA CMI Woodland Hills, CA	C/Option CP/AF	CECOM ARL	Nov-97 Nov-97	Jun-98 May-98	12 6	50 230	Y Y	N/A N/A	N/A N/A
Hardware: ASAS Modules/98	GTE Taunton, MA	C/Option	CECOM	Nov-97	Jun-98	24	54	Y	N/A	N/A
ASAS-Extended Systems and Modules/FY99	GTE Taunton, MA CMI Woodland Hills, CA	C/Option CP/AF	CECOM ARL	Nov-98 Nov-98	Jun-99 Jun-99	8 4	50 230	Y Y	N/A N/A	N/A N/A
Hardware: ASAS Modules/99	GTE Taunton, MA	C/option	CECOM	Nov-98	Jun-99	278	54	Y	N/A	N/A
REMARKS: The above hardware is ND/COTS purchased through PM CHS or other Army organizations.										

BUDGET ITEM JUSTIFICATION SHEET							DATE	February 1997
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE						
OTHER PROCUREMENT / Communications and Electronics Equipment		JTT/CIBS-M (TIARA) (V29600)						
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY	88	70	56	56	110	110	50	50
COST (in millions)	29.1	19.0	11.4	11.7	25.5	26.5	12.9	13.6
<p>DESCRIPTION: The Commanders Tactical Terminal (CTT) is a family of special application UHF Line of Sight (LOS) / Satellite Communications SATCOM) Secure Intelligence dissemination reporting system for deployment with tactical units. The system uses airborne and satellite relay platforms to provide robust, reliable, jam resistant targeting and intelligence data and voice connectivity throughout the battlefield. The CT consists of: the one channel CTT fielded to V Corps and XVIII Corps; 2 channel CTT/H-R (Hybrid - ZReceive only) and 3 channel CTT/H and CTT/H-R (Receive only). The one channel utilizes the Tactical / Reconnaissance Exchange System (TRIXS) network. The 2 and 3 channels can receive data on TRIXS, Tactical Information Broadcast Service (TIBS), Tactical Receive equipment and related Applications (TRAPS), and Tactical Data Information eXchange System (TADIXS) networks. In addition, the 3 channels can also employ generic UHF frequencies. These Broadcast networks collectively make up the Integrated Broadcast Service (IBS). The IBS is the worldwide DOD standard Network for transmitting tactical and strategic intelligence and battle management data. Starting in FY97 the CTT's produced will all be compliant with IBS requirements and begin migration to the Joint Tactical Terminal (JTT) using the Common Integrated Broadcast Service-Modules (CIBS-M). All FY97 and beyond quantities are designated Joint Tactical Terminal (JTT) in accordance with the IBS program plan.</p> <p>The CTT/JTT terminals deliver critical, time sensitive battlefield intelligence and targeting information at collateral and system high security levels in near real time (NRT) to the worldwide tactical commanders and intelligence nodes at all echelons. The terminals provide direct, secure and dedicated connectivity / interoperability for rapid targeting, threat avoidance, battle management, mission planning and sensor cueing. The equipment can be mounted in fixed and rotary wing aircraft as well as fixed or mobile ground platforms. The CTT/JTT facilitates reaction inside the enemy decision cycle and is necessary to winning the information war on the battlefield.</p> <p>JUSTIFICATION: FY98/99 funding procures sufficient JTT/CIBS-M hardware to meet specified user requirements. FY98/99 quantities include receive only and full duplex (receive / transmit) variants based on user identified requirements. CTT/JTT is a part of the Army's high priority initiative to digitize the battlefield.</p>								

OPA Cost Analysis		A. APN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				B. WEAPON COMMANDERS TACTICAL TERM (CTT) (TIARA) (V29600)				C. MANUFACTURER NAME		D. DATE February 1997	
OPA Cost Elements		FY 96				FY 97				FY 98		FY 99	
ID	CD	TotalCost	Qty	UnitCost	TotalCost	TotalCost	Qty	UnitCost	TotalCost	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	\$000	Each	\$000	\$000	\$000	\$000	Each	\$000
HARDWARE													
CTT (2 CH)	B	6246	18	347									
CTT (3 CH)*	B	17150	70	245	17150		70	245	6720	240	6720	28	240
CTT (3 CH)*	B								3780	135	3892	28	139
JTT (3 CH)	B												
JTT (3 CH/R)	B												
SUPPORT													
ECO'S		2141			637				252		424		
DATA		1028			130				44		46		
SYSTEM TEST & EVAL		1077			95				112		119		
ENGINEERING SUPPORT													
IN-HOUSE		490			120				208		214		
CONTRACTOR		310			292				57		59		
Subtotal - ENGINEERING SUPPORT		800			412				265		273		
FIELDING		288			198				64		69		
PROGRAM MGMT (ADMIN)		366			388				277		285		
TOTAL		29076			19010				11514		11828		

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE
B. APPROPRIATION / BUDGET ACTIVITY										February 1997
OTHER PROCUREMENT / Communications and Electronics Equipment					C. P-1 ITEM NOMENCLATURE					
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REC'D	IF YES W/A
CTT (3 CH) FY95	E-Systems, St Petersburg, FL	SS/FP	CECOM	Nov-95	Nov-96	16	324	Yes	No	
CTT (3 CH) FY96	E-Systems, St Petersburg, FL	SS/FP	CECOM	Dec-95	Mar-97	18	347	Yes	No	
CTT (3 CH) FY96	TBS	C/FP	CECOM	Sep-96	Oct-97	70	245	Yes	No	
JTT (3 CH) FY97	TBS	C/FP	CECOM	Jan-97	Jul-98	70	245	Yes	No	
JTT (3 CH) FY98	TBS	C/FP	CECOM	Nov-97	Feb-99	28	240	Yes	No	
JTT (3 CH/R) FY98	TBS	C/FP	CECOM	Nov-97	Feb-99	28	135	Yes	No	
JTT (3 CH) FY99	TBS	C/FP	CECOM	Jan-99	Nov-99	28	240	Yes	No	
JTT (3 CH/R) FY99	TBS	C/FP	CECOM	Jan-99	Nov-99	28	139	Yes	No	

REMARKS:

THE COMMANDERS TACTICAL TERMINALS ARE TO MIGRATE TO A JOINT TACTICAL TERMINAL (JTT) AS PART OF THE COMMON INTEGRATED BROADCAST SERVICE - MODULES (CIBS-M) PROGRAM PLAN. ALL TERMINALS PROCURED FY97 AND BEYOND WILL BE IBS COMPLIANT JTTs.

BUDGET ITEM JUSTIFICATION SHEET										DATE
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE								February 1997
OTHER PROCUREMENT / Communications and Electronics Equipment		IEW - GND BASE COMMON SENSORS (TIARA) (BZ7326)								
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		
QUANTITY	4	4	2	4	0	0	0	0		
COST (in millions)	45.5	47.0	26.8	37.3	88.6	90.6	95.2	108.9		

DESCRIPTION: Ground Based Common Sensor (GBCS) is an absolute must to win the battlefield information war. GBCS provides the Commanders of Army Divisions, Armored Cavalry Regiments and Separate Brigades with an organic capability to listen to, precisely locate for hard kill or order-of-battle resolution, or render threat command and control and fire control communications nets ineffective through electronic attack. GBCS provides capability to identify and precisely locate threat counter/mortar, counter/battery and ground surveillance radar emissions. The system is in two configurations specifically designed to ensure transportability, prime mover maintainability, and over terrain mobility equal to that of the supported divisions, regiments and brigades. GBCS-Light is in a High Mobility Multipurpose Wheeled Vehicle (HMMWV) for deployment with first to fight, Light, Airborne and Air Assault elements in support of contingency operations. GBCS-Heavy is configured on a derivative of the Bradley Fighting Vehicle System, the Electronic Fighting Vehicle System (EFVS). The EFVS development and procurement are in concert with the Command and Control Vehicle (C2V) for deployment with Heavy and Armored units. It will be the Army's only on-the-move, all weather, all terrain, self-contained, fully integrated, 24-hour-a-day, signals intelligence and electronic attack asset.

GBCS exploits or eliminates, at the Commander's discretion, the latest most modern types of hostile modulations, including modern radar and Low Probability of Intercept (LPI) communications, and transmissions techniques at the key time and place on the battlefield. When deployed in conjunction with Advanced QUICKFIX, its helicopter counterpart, GBCS provides for targeting accuracy sufficient for first round hit by organic artillery.

GBCS mission equipment is also being configured in a Light Armored Vehicle (LAV) for use by the United States Marine Corps.

JUSTIFICATION: The FY98/99 funds start the GBCS full-rate production line to support Department of the Army approved Operational Requirements Document for contingency forces. Sensor subsystems include (1) Tactical Jammer-Version A (TACJAM-A) Electronic Support Measures (ESM) subsystem to intercept and locate conventional digital data, burst, and LPI communications; (2) TACJAM-A Electronic Countermeasures (ECM) subsystem to freeze the enemy in place by jamming command and control and fire control communications; (3) Communications High Accuracy Locating Subsystem-Exploitable (CHALS-X(M)) miniaturized precision location subsystem to provide for location accuracies of communications emitters sufficient for targeting by organic artillery; and (4) Common Modules Electronic Intelligence (ELINT) Subsystem (CMES) to identify and locate, also with targeting accuracies, threat conventional and modern modulation counter mortar, counter battery, and ground surveillance radars.

(ID Code: B)

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE
B. APPROPRIATION / BUDGET ACTIVITY										February 1997
C. P-1 ITEM NOMENCLATURE										
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment										
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQD	IF YES W/A
GBCS-L HARDWARE										
FY95	ESI, Inc, Richardson, TX	Option	CECOM	Dec-94	May-97	6	9023	Yes		
FY96	Lockheed/Martin, Owego, NY	C/FP	CECOM	Jan-96	Jul-98	4	9561	Yes		
FY97	Lockheed/Martin, Owego, NY	Option	CECOM	Nov-96	Nov-98	4	7828	Yes		
FY 98	Lockheed/Martin, Owego, NY	Option	CECOM	Dec-97	Dec-99	2	7709	Yes		
FY 99	Lockheed/Martin, Owego, NY	Option	CECOM	Nov-98	Nov-00	4	8525	No	Yes	Mar-98
REMARKS: FY96 initiates competitive production. FY97 completes the Limited Procurement requirements with the purchase of two systems, LP ECP's and software fixes to spt LP models for test. Procure 2 production systems after Milestone III decision in 1Q98. FY98 starts full rate production. FY99 begins initiation of Class 1 Engineering Change for ECM.										

BUDGET ITEM JUSTIFICATION SHEET										DATE
APPROPRIATION / BUDGET ACTIVITY										February 1997
OTHER PROCUREMENT / Communications and Electronics Equipment										
P-1 ITEM NOMENCLATURE										
JOINT STARS (ARMY) (TIARA) (BA1080)										
QUANTITY	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		
	16	16	26	20	20	18	4	0		
COST (in millions)	82.4	85.3	118.9	89.2	91.2	102.2	36.1	18.0		

DESCRIPTION: The Joint Surveillance Target Attack Radar System (Joint STARS) is a surveillance battle management and targeting system. It is a Joint Army and Air Force program with the Air Force as the executive service. The Joint STARS radar is an airborne multimodal radar system incorporating an electronically scanned antenna and combines both Moving and Fixed Target Indicator (MTI/FTI) and Synthetic Aperture Radar (SAR) functions. The radar is carried aboard a modified E-8 aircraft (AN-TSQ-XXX) and broadcasts radar data to the Army Ground Station Modules (GSM) through an omnidirectional data link. In addition to Joint STARS data, the GSM will receive and process Unmanned Aerial Vehicle (UAV) and Commanders Tactical Terminal (CTT) data. The GSM is a tactical data processing and evaluation center that links the Joint STARS carried aboard the Air Force E-8 aircraft to the Army C3I Tactical Fire Direction System (TACFIRE) and All Source Analysis System (ASAS) nodes at the Corps, Division and Brigade levels. The GSM will assist commanders in determining battle management and targeting.

As of FY96, Joint STARS Ground Stations will incorporate Secondary Imagery Dissemination and other enhancements via an approved Pre-Planned Product Improvement (P3I) program. These production line engineering change proposals (ECPs) will bring about the evolution of the GSM into the Army's Common Ground Station (CGS). The CGS will integrate signal, imagery and other intelligence processing into a single ground station, resulting in enhanced battle management capabilities. The Joint STARS will fulfill an urgent air-land battlefield deficiency by providing an Army / Air Force battlefield sensor and attack control capability designed to detect, locate, track, classify and assist in attacking both moving and stationary ground targets beyond the Forward Line Of Troops (FLOT).

JUSTIFICATION: The FY98 funds procure 26 units. The Army has an urgent requirement for a world-wide deployable ground station capable of processing and reporting radar intelligence and imagery intelligence obtained from a variety of airborne platforms (e.g. Joint STARS, objective deep Unmanned Aerial Vehicle (UAV), close UAV, and allied aerial platforms. The Joint Stars Ground Stations contributed significantly to Operation Joint Endeavor and again proved to be a significant battle management asset to the Ground Commander. Joint Stars is a proven force multiplier, fielded to high priority units for worldwide deployment.

(ID Code "B")

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				B. WEAPON JOINT STARS (ARMY) (TIARA) (BA1080)				C. MANUFACTURER NAME				D. DATE February 1997			
OPA Cost Elements		FY 96				FY 97				FY 98				FY 99			
ID	CD	TotalCost	Qty	UnitCost	TotalCost	TotalCost	Qty	UnitCost	TotalCost	TotalCost	Qty	UnitCost	TotalCost	TotalCost	Qty	UnitCost	
		\$000	Each	\$000	\$000	\$000	Each	\$000	\$000	\$000	Each	\$000	\$000	\$000	Each	\$000	
HARDWARE																	
COMMON GROUND STATION (CGS)		70544	16	4409	67536		16	4221	85160		26	3275	85760		20	4288	
SUPPORT																	
ECO'S		4244			6690				713				1018				
DATA		751			554				178				252				
SYSTEM TEST AND EVAL		1756			2439				297				432				
ENGINEERING SUPPORT																	
IN-HOUSE		490			1720				279				396				
PRIME CONTRACTOR		1308			3408				482				684				
Subtotal - ENGINEERING SUPPORT		1798			5128				761				1080				
FIELDING		2305			2075				1345				504				
PROGRAM MGMT (ADMIN)		978			1006				1006				1088				
TOTAL		82376			85321				118873				89180				

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE
B. APPROPRIATION / BUDGET ACTIVITY										February 1997
OTHER PROCUREMENT / Communications and Electronics Equipment					C. P-1 ITEM NOMENCLATURE					
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY Each	UNIT COST \$000	SPECS AVAIL NOW	SPECS REV REQ'D	IF YES W/A
BLOCK I LIGHT (LGSM) FY 95	Motorola, Scottsdale, AZ	SS/FP	CECOM	Jul-95	Oct-96	8	5722	Yes	No	
COMMON GROUND STATION (CGS) FY 96 FY 97 FY 98 FY 99	Motorola, Scottsdale, AZ Motorola, Scottsdale, AZ Motorola, Scottsdale, AZ Motorola, Scottsdale, AZ	C/FP OPTION OPTION OPTION	CECOM CECOM CECOM CECOM	Dec-95 Jan-97 May-98 Dec-98	Mar-97 Mar-98 Feb-99 Mar-00	16 16 26 20	4409 4221 3275 4288	Yes Yes Yes Yes	No No No No	
REMARKS:										

FY 1998 / FY 1999 BUDGET PRODUCTION SCHEDULE										P-1 ITEM NOMENCLATURE										JOINT STARS (ARMY) (TIARA) (BA1080)										DATE										February 1997																															
COST ELEMENTS										MFR		FY		S		PROC QTY		ACCEP. PRIOR TO 1 OCT		BAL DUE AS OF 1 OCT		Fiscal Year 98										Fiscal Year 99										L																													
										1		FY 95		A		8								Calendar Year 98										Calendar Year 99										A T E R																											
BLOCK I LIGHT (LGSM)										1		FY 95		A		8						O N D J J A M A P R Y										J F M A M J J A S O N D										J F M A M J J A S O N D										J A T E R																			
COMMON GROUND STATION (CGS)										2		FY 96		A		16		10		6		1 2 1 2																																																	
COMMON GROUND STATION (CGS)										2		FY 96		*		2		0		2		2																																																	
COMMON GROUND STATION (CGS)										2		FY 97		A		16		0		16		1 2 1 2 1 2 1 2 1																																																	
COMMON GROUND STATION (CGS)										2		FY 98		A		26		0		18		1 2 1 2 1 2 1 2 1																																																	
COMMON GROUND STATION (CGS)										2		FY 99		A		20		0		20		A																																																	

CODE "B" ITEM DESCRIPTION			DATE	REPORT CONTROL SYMBOL
APPROPRIATION	ACTIVITY	OTHER PROCUREMENT	February 1997	DD-COMP(AR)1092
Communications and Electronics Equipment			P-1 ITEM NOMENCLATURE	
			JOINT STARS (ARMY) (TIARA) (BA1080)	
1. CURRENT DEVELOPMENT AND TEST STATUS				
a. DEV TEST & EVAL (OT&E)		PLAN / ACTUAL	SCHEDULE DATE	
b. INITIAL OPER TEST & EVAL (IOT&E)		PLAN / ACTUAL	CURRENT (1)	REASON FOR DELAY* (3)
c. OPER TEST & EVAL (OT&E)		PLAN / ACTUAL	LAST RPTD (2)	
d. AVAIL DATE OF TECH DATA PKG (TDP)			Mar-94	
OR PERFORMANCE SPECIFICATIONS			Nov-95	
			Nov-97	ACCELERATED TO MATCH PROGRAM PERFORMANCE.
			Jan-95	
2. ESTIMATED DATE OF APPROVAL FOR SERVICE USE May 98 - MS III				
3. EQUIPMENT ITEM(S) TO BE REPLACED				
THE JOINT STARS GSM IS A NEW BATTLEFIELD MANAGEMENT AND TARGETING SYSTEM. NO CURRENT SYSTEM CONTAINS THESE CAPABILITIES; THEREFORE, NOTHING PRESENTLY AVAILABLE WILL BE REPLACED.				
4. EXTENT OF IMPROVEMENT OVER ITEM(S) OF EQUIPMENT TO BE REPLACED				
NA				
5. DEVELOPMENT CONTRACT INFORMATION PE 64770/D202				
CONTRACTOR NAME (1)	PLANT LOCATION (2)	COMPONENT (3)	THROUGH 1996 (4)	1997 (5)
MOTOROLA	SCOTTSDALE, AZ	D3 / DGSM	37.3	1998 (6)
MOTOROLA	SCOTTSDALE, AZ	IGSM	98.9	1999 (7)
MOTOROLA	SCOTTSDALE, AZ	FIELD SPT	38.1	BEYOND BYs (8)
MOTOROLA	SCOTTSDALE, AZ	MGSM	83.5	1.7
MOTOROLA	SCOTTSDALE, AZ	LGSM / HGSM	109.9	5.0
MOTOROLA	SCOTTSDALE, AZ	CGS	10.6	2.1
CUBIC / GRUMAN	SAN DIEGO, CA	DATA LINK	9.7	1.0
MISC		VARIOUS	157.0	0.4
TOTAL RDT&E FUNDING			545.0	3.1
			9.9	5.7
6. REMARKS				
IOTE refers to FY96 Multiservice Operational Test & Evaluation (MOT&E). The Nov 97 Oper Test & Eval will support the CGS MS III decision.				

* Reference entries on attachment to P-19 if additional space is required to adequately explain delay from previous date.

BUDGET ITEM JUSTIFICATION SHEET										DATE
APPROPRIATION / BUDGET ACTIVITY										February 1997
OTHER PROCUREMENT / Communications and Electronics Equipment										
P-1 ITEM NOMENCLATURE										NATO-AGS (BA1082)
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		
QUANTITY	0	0	0	0	0	0	0	0		0
COST (in millions)	0.0	0.0	26.2	32.6	0.0	0.0	0.0	0.0		0.0
<p>DESCRIPTION: The US is a major participant in a cooperative venture to provide a Ground Surveillance Capability for NATO forces. Initial efforts to evaluate various Air / Ground component solution sets for the NATO Alliance Ground Surveillance System (NAGS) commenced in May 1995. Based on efforts to date and strong senior US leadership support, production funding was established to procure and modify Joint Stars Ground Stations to provide the NAGS Ground Component. The NATO Ground Stations will be nearly identical to the US configured Common Ground stations but will add interoperability capabilities with various other NATO air platforms, sensors and C3I systems.</p> <p>JUSTIFICATION: The FY 98 funding establishes a European production capability and procures a NATO training system to be installed at the European production facility. The FY 99 funds procure the initial four NATO Dedicated Ground Stations.</p>										

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 2 / Communications and Electronics Equipment						B. WEAPON NATO-AGS (BA1082)		C. MANUFACTURER NAME		D. DATE February 1997	
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99					
ID	CD	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
HARDWARE													
NATO JSTARS TRAINER								14500	1	14500	21275	4	5319
NATO GROUND STATIONS													
SUPPORT													
ECO'S													
DATA													
SYSTEM TEST AND EVAL													
ENGINEERING SUPPORT													
IN-HOUSE													
PRIME CONTRACTOR					3500			3500			350		
PRODUCTION FACILITIZATION					7903			7903			3550		
Sub Total - ENGINEERING SUPPORT					11403			11403			7400		
PROGRAM MGMT (ADMIN)					250			250			250		
TOTAL					26153			26153			32575		

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE
B. APPROPRIATION / BUDGET ACTIVITY										February 1997
C. P-1 ITEM NOMENCLATURE										
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment										
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY Each	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A
NATO JSTARS TRAINER FY 98	MOTOROLA , SCOTTSDALE AZ	SS/FFP	CECOM	Dec-97	Sep-99	1	14500	Yes	No	NA
NATO GROUND STATIONS FY 99	MOTOROLA , SCOTTSDALE AZ	SS/FFP	CECOM	Dec-98	Mar-00	4	5319	Yes	No	NA
REMARKS: THE FY 98 FUNDS PROCURES A EUROPEAN BASES GROUND STATION TRAINING SYSTEM (GSTS). THE FY 99 FUNDS PROCESS 4 NATO VERSION GROUND STATIONS.										

FY 98 / 99 BUDGET PRODUCTION SCHEDULE										P-1 ITEM NOMENCLATURE										NATO-AGS (BA1082)										DATE										February 1997										L A T E 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BUDGET ITEM JUSTIFICATION SHEET										DATE
APPROPRIATION / BUDGET ACTIVITY										February 1997
OTHER PROCUREMENT / Communications and Electronics Equipment										
P-1 ITEM NOMENCLATURE										
INTEGRATED BROADCAST TERMINAL MODS (TIAR (BA1081)										
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		
QUANTITY	0	0	0	0	0	0	0	0		
COST (in millions)	0	3.4	3.3	0.9	0	0	0	0		
<p>DESCRIPTION : The Integrated Broadcast Service (IBS) is the worldwide DOD standard network for transmitting tactical and strategic intelligence as well as battle management data. Starting in FY97, all DOD systems requiring access to the IBS will gain this access via a new family of common IBS modules (CIBS-M). The initial CIBS modules will be produced in FY97 and ultimately replace all IBS tactical terminals currently used by the services. Prior to the initiation of the CIBS-M program the Army received the IBS Broadcast via the Commander's Tactical Terminal. The CTTs will require modifications to maintain accessibility and interoperability with the IBS Broadcasts.</p> <p>JUSTIFICATION : The IBS plan directs that the Broadcast Networks maintain a standard technical configuration / approach that necessitates modifications to existing tactical terminals. Since the first common IBS modules will not begin production until FY97, the current support to Army, Air Force, Marine and Navy units provided via the CTT must be perpetuated beyond the year 2000. The CTTs are integrated into numerous weapon systems and provide urgently required near real time intelligence data. The modifications funded via this program insure the continued receipt of this information and intelligence data by USA forces worldwide.</p> <p>The FY98-99 funds are required to complete the modifications of fielded CTTs to be compliant and compatible with the recently documented network standards. This includes the conversion of Processor Proms to allow for Direct Downloading Software modifications and signal processing modifications to transmit and receive Demand Access Multiple Address (DAMA) packaged network transmission. The DAMA provides additional customer access capability while the software download feature will reduce future Operation & Support costs.</p>										

MODIFICATION INSTALLATION SUMMARY									
Date									
February 1997									
(TOA, Dollars in Millions)									
System/Modification	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	TOTAL
No P3a Set for modification									
INTEGRATED BROADCAST TERMINAL MODS (TIARA)									
BA1081	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.5
CTT 2 SOFTWARE DOWNLOAD CAPABILITY	0.0	0.0	0.6	0.2	0.0	0.0	0.0	0.0	0.8
CTT DAMA IMPLEMENTATION									
Totals	0.0	0.5	0.6	0.2	0.0	0.0	0.0	0.0	1.3

INDIVIDUAL MODIFICATION		Date	February 1997															
MODIFICATION TITLE:	CTT COMSEC CIRCUITRY REPLACEMENT 1-97-xxx1																	
MODELS OF SYSTEMS AFFECTED:	Commander's Tactical Terminal (CTT) 2 CHANNEL H/R																	
DESCRIPTION / JUSTIFICATION:	<p>This modification provides software and hardware changes to the CTT 2 by replacing EPROMS on several processor boards with FLASHEPROMS . This will allow future software updates to be downloaded either from the Host processor or via the maintenance port. This will obviate the necessity to return the radios to the factory for each future software change.</p>																	
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:	<table border="0"> <thead> <tr> <th></th> <th>PLANNED</th> <th>ACCOMPLISHED</th> </tr> </thead> <tbody> <tr> <td>CTT COMSEC CIRCUITRY REPLACEMENT :</td> <td></td> <td></td> </tr> <tr> <td> AWARD MOD</td> <td></td> <td>Dec-96</td> </tr> <tr> <td> INSTALLATIC START</td> <td>Feb-97</td> <td></td> </tr> <tr> <td> INSTALLATION COMPLETE</td> <td>Sep-97</td> <td></td> </tr> </tbody> </table>				PLANNED	ACCOMPLISHED	CTT COMSEC CIRCUITRY REPLACEMENT :			AWARD MOD		Dec-96	INSTALLATIC START	Feb-97		INSTALLATION COMPLETE	Sep-97	
	PLANNED	ACCOMPLISHED																
CTT COMSEC CIRCUITRY REPLACEMENT :																		
AWARD MOD		Dec-96																
INSTALLATIC START	Feb-97																	
INSTALLATION COMPLETE	Sep-97																	

Examples

INDIVIDUAL MODIFICATION																					
MODIFICATION TITLE (Cont): CTT SOFTWARE DOWNLOAD CAPABILITY 1-97-xxx1																					
FINANCIAL PLAN: (\$ in Millions)																					
	FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
RDT&E																					
PROCUREMENT																					
Kit Quantity																					
Installation Kits																					
Installation Kits Nonrecurring																					
Equipment																					
Equipment Nonrecurring																					
Engineering Change Orders																					
Data																					
Training Equipment																					
Support Equipment																					
Other																					
Interim Contractor Support																					
Installation of Hardware																					
FY 1996 & Prior Eqpt -- Kits																					
FY 1997 Eqpt -- Kits																					
FY 1998 Eqpt -- Kits																					
FY 1999 Eqpt -- Kits																					
FY 2000 Eqpt -- kits																					
FY 2001 Eqpt -- kits																					
FY 2002 Eqpt -- kits																					
FY 2003 Eqpt -- kits																					
(FY(TC) Eqpt (xx kits)																					
Total Installation Cost			77	0.5																77	0.5
Total Procurement Cost																					1.4

METHOD OF IMPLEMENTATION: REPLACEMENT				ADMINISTRATIVE LEADTIME:				3 Months				PRODUCTION LEADTIME:				1 Months			
Contract Dates:				FY 1997: DEC 96				FY 1998:				FY 1999:				FY 1999:			
Delivery Date:				FY 1997: FEB 97				FY 1998:				FY 1999:				FY 1999:			

INDIVIDUAL MODIFICATION		Date	February 1997
MODIFICATION TITLE:	CTT DAMA IMPLEMENTATION 1-97-xxx2		
MODELS OF SYSTEMS AFFECTED:	Commander's Tactical Terminal (CTT)		
DESCRIPTION / JUSTIFICATION:	<p>The Integrated Broadcast Services (IBS) Plan mandates that a Common capability and signal parameter be identified and implemented to maintain and insure oversight of the Broadcast networks and commonality / interoperability of all tactical terminal / receivers.</p> <p>The IBS networks have directed that all IBS receivers must be DAMA compliant by FY99. This modification will allow for state of the art multiple addressing circuitry to better manage the high volume of message traffic IBS users. Failure to complete this modification will render all existing CTTs (procured FY95 and prior) non mission capable.</p>		
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES: Examples	PLANNED	ACCOMPLISHED	
DAMATIZATION : AWARD MOD Jun-97 CONTRACTOR TEST Nov-97 INITIAL OPERATION TEST Feb-98 INSTALLATION TEST Apr-98 INSTALLATION COMPLETE May-99			

INDIVIDUAL MODIFICATION													
MODIFICATION TITLE (Cont): CTT DAMA IMPLEMENTATION 1-97-xxx2													
FINANCIAL PLAN: (\$ in Millions)													
	FY 1996 and Prior		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		TOTAL
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty
RDT&E													
PROCUREMENT													
Kit Quantity													
Installation Kits													
Installation Kits Nonrecurring Equipment			84	2.1	24	0.6							108 2.7
Nonrecurring Software													
Engineering Change Orders													
Data				1.6									2.1
Training Equipment				0.3									0.3
Support Equipment													
Other				0.1									0.3
Interim Contractor Support													
Operating system software													
Installation of Hardware													
FY 1996 & Prior Eqpt -- Kits													
FY 1997 Eqpt -- Kits													
FY 1998 Eqpt -- Kits			84	0.6									84 0.6
FY 1999 Eqpt -- Kits					24	0.2							24 0.2
FY 2000 Eqpt -- kits													
FY 2001 Eqpt -- kits													
FY 2002 Eqpt -- kits													
FY 2003 Eqpt -- kits													
(FY(TC) Eqpt (xx kits)													
Total Installation Cost			84	0.6	24	0.2							108 0.8
Total Procurement Cost				2.0		3.3		0.9					6.2
METHOD OF IMPLEMENTATION CONTRACTOR TEAM ADMINISTRATIVE LEADTIME: 5 Months PRODUCTION LEADTIME: 2 Months													
Contract Dates:				FY 1997: APR 97				FY 1998: JAN 98				FY 1999: OCT 98	
Delivery Date:				FY 1997: DEC 97				FY 1998: MAR 98				FY 1999: DEC 98	

BUDGET ITEM JUSTIFICATION SHEET										DATE
APPROPRIATION / BUDGET ACTIVITY										February 1997
OTHER PROCUREMENT / Communications and Electronics Equipment										
P-1 ITEM NOMENCLATURE										
DIGITAL TOPOGRAPHIC SPT SYS (DTSS) (TIARA) (KA2550)										
QUANTITY	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		
	3	3	4	5	6	25	11	8		
COST (in millions)	6.7	6.4	7.5	8.4	10.6	9.8	4.8	6.3		
<p>DESCRIPTION:</p> <p>The current terrain analysis, topographic and reproduction support provided by Army Engineer Terrain Teams are slow, labor intensive processes that do not meet the needs of the Force XXI digitized battlefield in which the commander must have the ability to rapidly obtain terrain information and topographic products such as cross-country movement, concealment, supply routes, avenues of approach, and line of sight. The Combat Terrain Information Systems (CTIS) Modernization Plan, approved in April 1994 by the Combat Developer, stated the requirement to proceed immediately with the Downsized DTSS configuration and further identified that Quick Response Multicolor Printer (QRMP) functionality would be incorporated in the DTSS for a single integrated terrain analysis and reproduction capability. It has been determined that the downsized capability is now more appropriate to support highly mobile contingency operations, stability and support operations, and split based operations. The DTSS/QRMP will be deployed at Division, Corps, and EAC in support of these missions. The DTSS/QRMP will automate the updating and processing of terrain information into terrain analysis products, provide rapid reproduction of low volume, up-to-date, large format, full color imagery maps, situation overlays, special graphics (e.g. captured enemy maps) and other topographic and terrain products. Part of imagery exploitation includes the development of a Multi-Spectral Imagery Processor (MSIP), which provides an image map making capability. Due to current world events and the possibility of contingency missions in areas where standard map products are not available, image map production has become an urgent need. The CTIS program office was tasked with the mission to issue the DTSS-MSIP as an interim measure to topographic units. Delivery of the DTSS-MSIPs was completed in June 1995. Enhancements to the DTSS-MSIPs have been issued to all of the active topographic units and includes the delivery of upgraded software and scanners.</p> <p>JUSTIFICATION:</p> <p>FY98/99 funding will be used for procurement of downsized DTSS/QRMP-L. The downsized DTSS/QRMP-L provides DTSS and QRMP functionality in a Lightweight Multipurpose Shelter (LMS) mounted on a High Mobility Multipurpose Wheeled Vehicle (HMMWV). DTSS/QRMP systems will be fielded to Army Engineer Terrain Teams in CONUS (FORSCOM), USAREUR, HAWAII, and Korea (PACOM).</p>										

OPA Cost Analysis			A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				B. WEAPON DIGITAL TOPOGRAPHIC SPT SYS (DTSS) (TIABA) (KA2550)				C. MANUFACTURER NAME Lockheed Martin Corp Ft. Washington, PA		D. DATE February 1997	
OPA			FY 96		FY 97		FY 98		FY 99					
Cost Elements			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
1. Hardware														
a. DTSS-MSIP			1552	35	44									
b. DTSS-MSIP (Enhancements)														
c. DTSS Upgrade			2670	2	1335	3855	3	1285						
QRMP EMD Prototype ISO 20 Upgrade			250			250			5255	3	1752	6635	4	1659
c. DTSS/QRMP														
2. Engineering Support														
a. DTSS/QRMP ECP Engineering			500			300			200					
b. Misc Out-of-House Engineering			400			400			240			100		
3. Fielding														
Total Package Fielding			136			280			300			200		
New Equipment Training			68			200			200			200		
First Destination Transportation			20			32			70			70		
4. Project Management and Administration														
5. Interim Contractor Support			740			740			800			800		
			400			360			400			400		
TOTAL			6736			6417			7465			8405		
Notes:														
Quantities have been adjusted to reflect currently estimated unit costs.														
FY97 DTSS/QRMP Hardware "Total Cost" reflects procurement of GFE to support production.														

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE	February 1997
B. APPROPRIATION / BUDGET ACTIVITY											
C. P-1 ITEM NOMENCLATURE											
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment											
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST \$000	SPECS AVAIL NOW	SPECS REV REQ'D	IF YES W/A	
DTSS-MSIP											
FY96	LMC, Fort Washington, PA	C/FP	USA Topo Eng Center	Jan-96	Feb-96	35	44	Yes	No		
DTSS Upgrade (5-ton, ISO 20)											
FY96	LMC, Fort Washington, PA	SS/FP	USA Topo Eng Center	Aug-96	Jun-97	2	1335	No *			
FY97	LMC, Fort Washington, PA	SS/FP	USA Topo Eng Center	Jan-97	Nov-97	3	1285	No *			
DTSS/QRMP (HMMWV, LMS)											
FY98	TBS	C/FP	USA Topo Eng Center	Nov-97	Nov-98	3	1752	No *			
FY99	TBS	C/FP	USA Topo Eng Center	Nov-98	Oct-99	4	1659	No *			
REMARKS: FY98/99 funding will be used for procurement of downsized DTSS/QRMP-L. Downsized DTSS/QRMP-L provides DTSS and QRMP functionality in a Lightweight Multipurpose Shelter (LMS) mounted on a High Mobility Multipurpose Wheeled Vehicle (HMMWV). DTSS/QRMP systems are being fielded to Army Engineer Terrain Teams in CONUS (FORSCOM), USAEUR, Hawaii and Korea (PACOM).											
* LMC will deliver final drawing package in Feb 97.											

BUDGET ITEM JUSTIFICATION SHEET									
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE							
OTHER PROCUREMENT / Communications and Electronics Equipment		TACTICAL EXPLOITATION OF NATIONAL CAPABI (BZ7315)							
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	
QUANTITY	0	0	0	0	0	0	0	0	
COST (in millions)	4.5	1.8	1.7	1.7	4.6	13.7	14.8	16.8	

DATE
February 1997

Description: The Tactical Exploitation of National Capabilities (TENCAP) Program provides tactical commanders with rapid access to critical information collected by National Intelligence Sources. This program is responsible for provisioning the AN/TSQ 134(V) (Advanced Electronic Processing and Dissemination System (AEPDS)), the Forward Area Support Terminal (FAST) and the Mobile Integrated Tactical Terminal (MITT) to Army Echelons Above Corps, Corps and maneuver divisions. All systems are characterized as stand alone systems, with multiple communications capability defined in UHF S-Band and terrestrial communications packages, and with the exception of FAST, systems are contained in shelters or vans, with a dedicated primemover and system operators. Development of a new system, the Tactical Exploitation System (TES), began in 1996. The TENCAP Program also manages the Enhanced Tactical Radar Correlator (ETRAC) and the Modernized Imagery Exploitation System (MIES) which are funded under the Defense Airborne Reconnaissance Office (DARO), PE 0305154D Defense Airborne Reconnaissance Program (DARP).

Further information may be found at the Tactical Intelligence and Related Activities (TIARA) Congressional Justification Book, Volume II, and the Army's TENCAP Master Plan.

Justification: The FY98/99 funds procure both military and commercial hardware and software (GOTS/COTS) capabilities to enhance TENCAP systems' performance and to maintain interoperability with National systems and Army tactical communications architecture. The Units procured under this line are components that are incorporated into all TENCAP systems (including ETRAC and MIES) and fall under the TENCAP Common Baseline Project, which addresses common subsystems, planned improvements, key activities and ongoing/planned initiatives determined to have potential application to multiple TENCAP systems.

Cost Analysis P-5 Exhibit		A. APPN / BUDGET ACTIVITY TITLE/NO				B. WEAPON		C. MANUFACTURER NAME		D. DATE			
Cost Elements	ID cd	FY 96			FY 97			FY 98			FY 99		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
a. SUCCESS Radio (COMSEC, DAMA, TIBS PPU)		2370	20	119									
b. MITT/FAST/AEPDS (Chariot, SLDCOM)		440	3	147	1758	12	147						
c. Workstations (TENCAP Guard Processor)		1663	24	69									
d. Procure DE-U													
TOTALS		4473			1758			1679	1	1679	1728	1	1728
CHARIOT: Mobile S-Band Transceiver Terminal (Name changed from ROTERM to Chariot)													
COMSEC: Communications Security													
DAMA: Demand Assigned Multiple Access for UHF Satellite Communications													
PPU: Protocol Processing Unit													
SLDCOM: Satellite Launch Dispenser Communications													
TENCAP Guard Processor is Multi-level Security System													
TIBS: Tactical Information Broadcast System													

1994

A. DATE

C. P-1 ITEM NOMENCLATURE

LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY Each	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A
a. SUCCESS Radio (COMSEC, DAMA, TIBS PPU) FY96	CLASSIFIED	CLSFD	CLASSIFIED	2Q96	2Q97	20	119	YES		
b. MITT/FAST (Chariot, SLDCOM) FY96 FY97	CLASSIFIED CLASSIFIED	CLSFD CLSFD	CLASSIFIED CLASSIFIED	2Q96 2Q97	2Q97 2Q98	3 12	147 147	YES YES		
c. WORKSTATIONS (TENCAP Guard Processor) FY96	CLASSIFIED	CLSFD	CLASSIFIED	2Q96	2Q97	24	69	YES		
d. Procure DE-U FY98 FY99	Lockheed-Martin Lockheed-Martin	C/FFP C/FFP	USAF/SMC/CWPB USAF/SMC/CWPB	2Q98 2Q99	2Q99 2Q00	1 1	1679 1728	YES YES		

REMARKS: COMSEC: Communications Security
 DAMA: Demand Assigned Multiple Access for UHF Satellite Communications
 TIBS: Tactical Information Broadcast System
 PPU: Pre-Processor Unit
 CHARIOT: Mobile S-Band Transceiver Terminal

SLDCOM: Satellite Launch Dispenser Communications
 TENCAP Guard Processor is Multi-level Security System
 DE-U : Dissemination Element-Upgrade

BUDGET ITEM JUSTIFICATION SHEET										DATE	February 1997
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE									
OTHER PROCUREMENT / Communications and Electronics Equipment		JOINT TACTICAL GROUND STATION (BZB410)									
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003			
QUANTITY	0	0	0	0	0	0	0	0	0		
COST (in millions)	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.4		
<p>DESCRIPTION: The Joint Tactical Ground Station (JTGS) provides an in-theater capability for receipt, processing and the dissemination of warning and cueing data on missile launches and other major tactical events from space based sensors within the ground station field of view. By being located in-theater, the system provides assured delivery of accurate and timely missile warning and cueing information. It improves the accuracy of the launch point estimation in order to support attack operations and provides more accurate impact point prediction to support both active and passive defense. The warning and cueing information will be disseminated via Tactical Information Broadcast System (TIBS), Tactical Data Dissemination System (TDDS) and other existing in-theater communications nets. The system consists of a shelter with processors and communication equipment, satellite receiver antennas and power generator equipment.</p> <p>JUSTIFICATION: The JTGS FY96 funds were used to improve the reporting time lines on Tactical Ballistic Missiles (TBM) launches by originating warning reports in-theater which are transmitted using tactical communications such as TDDS and TIBS, thus eliminating the use of overburdened commander and control communications lines from CONUS to transmit TBM warning messages. The in-theater capability also reduces the likelihood of single point failures in communication.</p>											

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				B. WEAPON JOINT TACTICAL GROUND STATION (BZB410)				C. MANUFACTURER NAME Aerojet		D. DATE February 1997	
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99					
ID	CD	TotalCost	Qty	UnitCost	TotalCost	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	UnitCost
		\$000	Each	\$000	\$000	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000
Prime Contractor Hardware		16920	5	3384									
Prime Contractor Engineering		4426		885									
Prime Contractor Data		176											
Prime Contractor First Article Test		219											
Government Program Management		1400											
Government Furnished Equipment		3089											
Contractor Engineering		1800											
Government Engineering		1920											
TOTAL		29950											

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE
B. APPROPRIATION / BUDGET ACTIVITY										February 1997
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment					C. P-1 ITEM NOMENCLATURE					
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A
Joint Tactical Ground Station (JTGS) FY 96	Aerojet, Azusa, CA	C/CPIF*	SSDC	Mar-96	Oct-96	5	3384	Yes	No	
REMARKS: * Exercised Option Mar 96										

BUDGET ITEM JUSTIFICATION SHEET										DATE	February 1997
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE									
OTHER PROCUREMENT / Communications and Electronics Equipment		JOINT TACTICAL GROUND STATION MODS (BZB420)									
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003			
QUANTITY	0	0	0	0	0	0	0	0			
COST (in millions)	0.0	0.0	2.9	2.7	0.0	0.0	0.0	0.0		0.0	
<p>DESCRIPTION:</p> <p>The Joint Tactical Ground Station Modification program will integrate into JTAGS, the Joint Tactical Information Distribution System (JTIDS) which will distribute JTAGS data via the Joint Theater Missile Defense (JTMd) communication nets; fuse Defense Support Program (DSP) sensor data with data from other sensors for improved cueing and predicted ground impact point (PGIP) accuracies; and calibrate sensor location via static sources or beacons.</p> <p>JUSTIFICATION:</p> <p>The FY98/99 funds procure JTIDS, Sensor Fusion and Beacons needed for computer upgrades, enhance satellite compatibility and next generation upgrades.</p>											

BUDGET ITEM JUSTIFICATION SHEET

APPROPRIATION / BUDGET ACTIVITY		DATE
OTHER PROCUREMENT / Communications and Electronics Equipment		February 1997
P-1 ITEM NOMENCLATURE		JOINT TACTICAL GROUND STATION MODS (BZ8420)

OSIP No.	Description	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
Classification	All PYs							
TBD1	Sensor Fusion							
Operational	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0
TBD2	Beacons							
Operational	0.0	0.0	2.2	0.0	0.0	0.0	0.0	0.0
TBD3	Joint Tactical Information Distribution System (JTIDS)							
Operational	0.0	0.0	0.0	2.7	0.0	0.0	0.0	0.0
Totals	0.0	0.0	2.9	2.7	0.0	0.0	0.0	0.0

MODIFICATION INSTALLATION SUMMARY									
									Date
									February 1997
(TOA, Dollars in Millions)									
System/Modification	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	TOTAL
* No P3a Set for modification									
JOINT TACTICAL GROUND STATION MODS									
BZ8420									
Sensor Fusion	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1
Beacons	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1
Joint Tactical Information Distribution System (JTIDS)	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1
Totals	0.0	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.3

INDIVIDUAL MODIFICATION		Date	February 1997				
MODIFICATION TITLE:	Sensor Fusion TBD1						
MODELS OF SYSTEMS AFFECTED:	Data Processing Subsystem						
DESCRIPTION / JUSTIFICATION:	<p>The Sensor Fusion modification adds the capability to integrate other sensor data with Defense Support Program (DSP) data to improve accuracy of the predicted ground impact point (PGIP) and state vector. JTAGS currently receives and processes data from the DSP constellation of satellites only. The overall accuracy and utility of data provided to theater forces could be greatly enhanced and reduction in system performance risk obtained from fusion of DSP data with data from other sensors. Fusion is currently a growth requirement in the JTAGS Operational Requirements Document (ORD). Fusion will allow the program to move toward the required PGIP Program Objective.</p>						
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:							
Preliminary Design Review:	<table border="0"> <tr> <td>PLANNED</td> <td>ACCOMPLISHED</td> </tr> <tr> <td>1Q FY97</td> <td>1QFY97</td> </tr> </table>	PLANNED	ACCOMPLISHED	1Q FY97	1QFY97		
PLANNED	ACCOMPLISHED						
1Q FY97	1QFY97						
Critical Design Review:	2Q FY97						
Contractor Test and Evaluation:	4Q FY97						
Development Test and Evaluation:	1Q FY98						
Initial Operational Test and Evaluation:	1Q FY98						
IPR Production Decision	1Q FY98						
TDP Available:	NA						

INDIVIDUAL MODIFICATION																					
Sensor Fusion TBD1																					
MODIFICATION TITLE (Cont):																					
FINANCIAL PLAN: (\$ in Millions)																					
	FY 1996 and Prior		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
RDT&E				0.8																	1.6
PROCUREMENT																					
Kit Quantity																					
Installation Kits																					
Installation Kits Nonrecurring Equipment																					5
Equipment Nonrecurring																					0.6
Engineering Change Orders																					
Data																					
Training Equipment																					
Support Equipment																					
Other																					
Interim Contractor Support																					
Installation of Hardware																					
FY 1996 & Prior Eqpt -- Kits																					
FY 1997 Eqpt -- Kits																					
FY 1998 Eqpt -- Kits																					
FY 1999 Eqpt -- Kits																					
FY 2000 Eqpt -- kits																					
FY 2001 Eqpt -- kits																					
FY 2002 Eqpt -- kits																					
FY 2003 Eqpt -- kits																					
(FY(TC) Eqpt (xx kits)																					
Total Installation Cost																					0.1
Total Procurement Cost																					0.7

METHOD OF IMPLEMENTATION	Contractor Mod Team	ADMINISTRATIVE LEADTIME:	3 Months	PRODUCTION LEADTIME:	5 Months
Contract Dates:	FY 1997:	FY 1998:	Jan-98	FY 1999:	
Delivery Date:	FY 1997:	FY 1998:	Jun-98	FY 1999:	

Installation Schedule: Sensor Fusion TBD1												
FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		February 1997
& Prior		1		2		3		4		1		
Inputs												
FY 1996 & Prior												
FY 1997												
FY 1998												
FY 1999												
Outputs												
FY 1996 & Prior												
FY 1997												
FY 1998												
FY 1999												
5												
Inputs												
FY 2000		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		
1		2		3		4		1		2		
3		4		1		2		3		4		
4		1		2		3		4		1		
1		2		3		4		1		2		
3		4		1		2		3		4		
4		1		2		3		4		1		
1		2		3		4		1		2		
3		4		1		2		3		4		
4		1		2		3		4		1		
1		2		3		4		1		2		
3		4		1		2		3		4		
4		1		2		3		4		1		
1		2		3		4		1		2		
3		4		1		2		3		4		
4		1		2		3		4		1		
1		2		3		4		1		2		
3		4		1		2		3		4		
4		1		2		3		4		1		
1		2		3		4		1		2		
3		4		1		2		3		4		
4		1		2		3		4		1		
1		2		3		4		1		2		
3		4		1		2		3		4		
4		1		2		3		4		1		
1		2		3		4		1		2		
3		4		1		2		3		4		
4		1		2		3		4		1		
1		2		3		4		1		2		
3		4		1		2		3		4		
4		1		2		3		4		1		
1		2		3		4		1		2		
3		4		1		2		3		4		
4		1		2		3		4		1		
1		2		3		4		1		2		
3		4		1		2		3		4		
4		1		2		3		4		1		
1		2		3		4		1		2		
3		4		1		2		3		4		
4		1		2		3		4		1		
1		2		3		4		1		2		
3		4		1		2		3		4		
4		1		2		3		4		1		
1		2		3		4		1		2		
3		4		1		2		3		4		
4		1		2		3		4		1		
1		2		3		4		1		2		
3		4		1		2		3		4		
4		1		2		3		4		1		
1		2		3		4		1		2		
3		4		1		2		3		4		
4		1		2		3		4		1		
1		2		3		4		1		2		
3		4		1		2		3		4		
4		1		2		3		4		1		
1		2		3		4		1		2		
3		4		1		2		3		4		
4		1		2		3		4		1		
1		2		3		4		1		2		
3		4		1		2		3		4		
4		1		2		3		4		1		
1		2		3		4		1		2		
3		4		1		2		3		4		
4		1		2		3		4		1		
1		2		3		4		1		2		
3		4		1		2		3		4		
4		1		2		3		4		1		
1		2		3		4		1		2		
3		4		1		2		3		4		
4		1		2		3		4		1		
1		2		3		4		1		2		
3		4		1		2		3		4		
4		1		2		3		4		1		
1		2		3		4		1		2		
3		4		1		2		3		4		
4		1		2		3		4		1		
1		2		3		4		1		2		
3		4		1		2		3		4		
4		1		2		3		4		1		
1		2		3		4		1		2		
3		4		1		2		3		4		
4		1		2		3		4		1		
1		2		3		4		1		2		
3		4		1		2		3		4		
4		1		2		3		4		1		
1		2		3		4		1		2		
3		4		1		2		3		4		
4		1		2		3		4		1		
1		2		3		4		1		2		
3		4		1		2		3		4		
4		1		2		3		4		1		
1		2		3		4		1		2		
3		4		1		2		3		4		
4		1		2		3		4		1		
1		2		3		4		1		2		
3		4		1		2		3		4		
4		1		2		3		4		1		
1		2		3		4		1		2		
3		4		1		2		3		4		
4		1		2		3		4		1		
1		2		3		4		1		2		
3		4		1		2		3		4		
4		1		2		3		4		1		
1		2		3		4		1		2		
3		4		1		2		3		4		
4		1		2		3		4		1		
1		2		3		4		1		2		
3		4		1		2		3		4		
4		1		2		3		4		1		
1		2		3		4		1		2		
3		4		1		2		3		4		
4		1		2		3		4		1		
1		2		3		4		1		2		
3		4		1		2		3		4		
4		1		2		3		4		1		
1		2		3		4		1		2		
3		4		1		2		3		4		
4		1		2		3		4		1		
1		2		3		4		1		2		
3		4		1		2		3		4		
4		1		2		3		4		1		
1		2		3		4		1		2		
3		4		1		2		3		4		
4		1		2		3		4		1		
1		2		3		4		1		2		
3		4		1		2		3		4		
4		1		2		3		4		1		
1		2		3		4		1		2		
3		4		1		2		3		4		
4		1		2		3		4		1		
1		2		3		4		1		2		
3		4		1		2		3		4		
4		1		2		3		4		1		
1		2		3		4		1		2		
3		4		1		2		3		4		
4		1		2		3		4		1		
1		2		3		4		1		2		
3		4		1		2		3		4		
4		1		2		3		4		1		
1		2		3		4		1		2		
3		4		1		2		3		4		
4		1		2		3		4		1		
1		2		3		4		1		2		
3		4		1		2		3		4		
4		1		2		3		4		1		
1		2		3		4		1		2		
3		4		1		2		3		4		
4		1		2		3		4		1		
1		2		3		4		1		2		
3		4		1		2		3		4		
4		1		2		3		4		1		
1		2		3		4		1		2		
3		4		1		2		3		4		
4		1		2		3		4		1		
1		2		3		4		1		2		
3		4		1		2		3		4		
4		1		2		3		4		1		
1		2		3		4		1		2		
3		4		1		2		3		4		
4		1		2		3		4		1		
1		2		3		4		1		2		
3		4		1		2		3		4		
4		1		2		3		4		1		
1		2		3		4		1		2		
3		4		1		2		3		4		
4		1		2		3		4		1		
1		2		3		4		1		2		
3		4		1		2		3		4		
4		1		2		3		4		1		
1		2		3		4		1		2		
3		4		1		2		3		4		
4		1		2		3		4		1		
1		2		3		4		1		2		
3		4		1		2		3		4		
4		1		2		3		4		1		
1		2		3		4		1		2		
3		4		1		2		3		4		
4		1		2		3		4		1		
1		2		3		4		1		2		
3		4		1		2		3		4		
4		1		2		3		4		1		
1		2		3		4		1		2		
3		4		1		2		3		4		
4		1		2		3		4		1		
1		2		3		4		1		2		
3		4		1		2		3		4		
4		1		2		3		4		1		
1		2		3		4		1		2		
3		4		1		2		3		4		
4		1		2		3		4		1		
1		2		3		4		1		2		
3		4		1		2		3		4		
4		1		2		3		4		1		
1		2		3		4		1		2		
3		4		1		2		3		4		
4		1		2		3		4		1		
1		2		3		4		1		2		
3		4		1		2		3		4		
4		1		2		3		4		1		
1		2		3		4		1		2		
3		4		1		2		3		4		
4		1		2		3		4		1		
1		2		3		4		1		2		
3		4		1		2		3		4		
4		1		2		3		4		1		
1		2		3		4		1		2		

INDIVIDUAL MODIFICATION		Date	February 1997
MODIFICATION TITLE:		Beacons TBD2	
MODELS OF SYSTEMS AFFECTED:		Data Processing Subsystem	
DESCRIPTION / JUSTIFICATION:			
<p>Bias removal techniques (such as beacons or other measures) adds the ability to improve the estimated launch point (ELP) accuracy. Line-of-sight errors have been significantly reduced by the use of existing bias removal techniques. This effort will evaluate means of achieving even greater accuracy through selective use of additional bias elimination methods. A study will be conducted initially to identify the most effective means of implementing this improvement. This effort is required to achieve the ELP Program Objective.</p>			
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:			
Preliminary Design Review:	PLANNED	ACCOMPLISHED	
	1Q FY97	1QFY97	
Critical Design Review:	2Q FY97		
Contractor Test and Evaluation:	4Q FY97		
Development Test and Evaluation:	2Q FY98		
Initial Operational Test and Evaluation:	2Q FY98		
IPR Production Decision	2Q FY98		
TDP Available:	NA		

INDIVIDUAL MODIFICATION														
Beacons TBD2														
MODIFICATION TITLE (Cont):														
FINANCIAL PLAN: (\$ in Millions)														
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	TC	TOTAL				
	Qty	Qty	Qty	Qty	Qty	Qty	Qty	Qty	Qty	Qty	Qty	Qty	Qty	Qty
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
RDT&E														
PROCUREMENT														
Kit Quantity														
Installation Kits														
Installation Kits Nonrecurring														
Equipment														
Equipment Nonrecurring														
Engineering Change Orders														
Data														
Training Equipment														
Support Equipment														
Other														
Interim Contractor Support														
Installation of Hardware														
FY 1996 & Prior Eqpt -- Kits														
FY 1997 Eqpt -- Kits														
FY 1998 Eqpt -- Kits														
FY 1999 Eqpt -- Kits														
FY 2000 Eqpt -- kits														
FY 2001 Eqpt -- kits														
FY 2002 Eqpt -- kits														
FY 2003 Eqpt -- kits														
(FY(TC) Eqpt (xx kits)														
Total Installation Cost														
Total Procurement Cost														
METHOD OF IMPLEMENTATION	Contractor Mod team		ADMINISTRATIVE LEADTIME:		5 Months		PRODUCTION LEADTIME:		3 Months					
Contract Dates:	FY 1997:		FY 1998:		Mar-98		FY 1999:		FY 1999:					
Delivery Date:	FY 1997:		FY 1998:		Jun-98		FY 1999:		FY 1999:					

Installation Schedule: Beacons TBD2													
FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		February 1997	
& Prior	1	2	3	4	1	2	3	4	1	2	3	4	Total
Inputs													
FY 1996 & Prior													
FY 1997													
FY 1998													
FY 1999													
Outputs													
FY 1996 & Prior													
FY 1997													
FY 1998													
FY 1999													
6													
6													

INDIVIDUAL MODIFICATION		Date	February 1997
MODIFICATION TITLE: Joint Tactical Information Distribution System (JTIDS) TBD3			
MODELS OF SYSTEMS AFFECTED: Communication Subsystem			
DESCRIPTION / JUSTIFICATION: <p>The JTIDS Operational Requirements Document (ORD) requires that the system be capable of accepting and using JTIDS. This improvement will satisfy the ORD requirement. Integration of the JTIDS radios will permit JTIDS to interface directly with the Joint Theater Warning Net, which will support the dissemination of information to all phases of Theater Missile Defense (TMD) operations.</p>			
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:			
	PLANNED	ACCOMPLISHED	
Preliminary Design Review:	2Q FY97		
Critical Design Review:	3Q FY98		
Contractor Test and Evaluation:	4Q FY98		
Development Test and Evaluation:	4Q FY98		
Initial Operational Test and Evaluation:	4Q FY98		
IPR Production Decision	1Q FY99		
TDP Available:	NA		

INDIVIDUAL MODIFICATION																			Date	February 1997						
MODIFICATION TITLE (Cont):																			Joint Tactical Information Distribution System (JTIDS) TBD3							
FINANCIAL PLAN: (\$ in Millions)																										
	FY 1996 and Prior		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL							
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$						
RDT&E				0.3		1.6														1.9						
PROCUREMENT																										
Kit Quantity							5	2.6											5	2.6						
Installation Kits																										
Installation Kits Nonrecurring																										
Equipment																										
Equipment Nonrecurring																										
Engineering Change Orders																										
Data																										
Training Equipment																										
Support Equipment																										
Other																										
Interim Contractor Support																										
Installation of Hardware																										
FY 1996 & Prior Eqpt -- Kits																										
FY 1997 Eqpt -- Kits																										
FY 1998 Eqpt -- Kits																										
FY 1999 Eqpt -- Kits							5	0.1											5	0.1						
FY 2000 Eqpt -- kits																										
FY 2001 Eqpt -- kits																										
FY 2002 Eqpt -- kits																										
FY 2003 Eqpt -- kits																										
(FY(TC) Eqpt (xx kits)																										
Total Installation Cost							5	0.1											5	0.1						
Total Procurement Cost								2.7												2.7						
METHOD OF IMPLEMENTATION Contractor Mod team																			ADMINISTRATIVE LEADTIME:		2 Months		PRODUCTION LEADTIME:		3 Months	
Contract Dates:																			FY 1997:		FY 1998:		FY 1999:		Dec-98	
Delivery Date:																			FY 1997:		FY 1998:		FY 1999:		Mar-99	

Installation Schedule: Joint Tactical Information Distribution System (JTIDS) TBD3															
FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2004		FY 2005	
& Prior		1	2	3	4	1	2	3	4	1	2	3	4	1	2
Inputs															
FY 1996 & Prior															
FY 1997															
FY 1998															
FY 1999															
Total															
5															
Outputs															
FY 1996 & Prior															
FY 1997															
FY 1998															
FY 1999															
5															
Inputs															
FY 2000		1	2	3	4	1	2	3	4	1	2	3	4	1	2
FY 2001															
FY 2002															
FY 2003															
Total															
5															
Outputs															
FY 2000															
FY 2001															
FY 2002															
FY 2003															
Total															
5															
Remarks:															

BUDGET ITEM JUSTIFICATION SHEET										DATE
APPROPRIATION / BUDGET ACTIVITY										February 1997
OTHER PROCUREMENT / Communications and Electronics Equipment					P-1 ITEM NOMENCLATURE					TROJAN (TIARA) (BA0326)
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		
QUANTITY	0	0	0	0	0	0	0	0		
COST (in millions)	18.5	4.2	3.8	4.1	4.5	4.7	4.8	4.9		
<p>DESCRIPTION: TROJAN is a combined operational and readiness mission system which uses advanced networking technology to provide rapid relay; secure communications to include voice, data, facsimile; and electronic reconnaissance support to U.S. forces throughout the world. TROJAN operations may be easily tailored to fit military intelligence unit training schedules, and surged during specific events to involve every aspect of the tactical intelligence collection, processing analysis and reporting efforts.</p> <p>JUSTIFICATION: FY98 and FY99 funds collection and processing system upgrades, dissemination enhancements and automated switching improvements.</p>										

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				B. WEAPON TROJAN (TIARA) (BA0326)		C. MANUFACTURER NAME		D. DATE February 1997			
OPA Cost Elements	ID CD	FY 96		FY 97		FY 98		FY 99		UnitCost	UnitCost		
		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each			UnitCost \$000	
TROJAN SPECIAL PURPOSE RECEIVING SYSTEM (TIARA) AN/FSQ-144 TROJAN SPIRIT - TERMINALS (TIARA)		3176 15336	VAR *10	VAR VAR	2114 2085	VAR VAR	VAR VAR	3349 479	VAR VAR	VAR VAR	3648 478	VAR VAR	VAR VAR
TOTAL		18512			4199			3828			4126		

BUDGET ITEM JUSTIFICATION SHEET										DATE
APPROPRIATION / BUDGET ACTIVITY										February 1997
OTHER PROCUREMENT / Communications and Electronics Equipment										
P-1 ITEM NOMENCLATURE										
TROJAN SP PURPOSE RCYNG SYS (TIARA) AN/F (BA0331)										
QUANTITY	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		
	0	0	0	0	0	0	0	0		
COST (in millions)	3.2	2.1	3.3	3.6	4.5	4.7	4.8	4.9		
<p>DESCRIPTION: TROJAN is a combined operational and readiness mission system which uses advanced networking technology to provide rapid radio relay; secure communications and electronic reconnaissance support to U.S. forces throughout the world. TROJAN operations may be easily tailored to fit military intelligence unit training schedules, and surged during specific events to involve every aspect of the tactical intelligence collection, processing, analysis and reporting efforts.</p> <p>TROJAN consist of four subsystems: remote receiver groups, located at border sites; monitor control groups to include analyst workstation groups, located a unit garrisons; digital data switching group which provides the automated switching capability; and switch extensions which provide operational control, intelligence dissemination, administrative and logistics functions.</p> <p>JUSTIFICATION: FY98 and FY99 fund collection and processing system upgrades.</p>										

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				B. WEAPON TROJAN SP PURPOSE RCVNG SYS (TIARA) AN/E (BA0331)				C. MANUFACTURER NAME		D. DATE February 1997					
OPA		FY 96				FY 97				FY 98				FY 99			
Cost Elements		TotalCost	Qty	UnitCost	TotalCost	UnitCost	TotalCost	Qty	UnitCost	TotalCost	UnitCost	TotalCost	Qty	UnitCost	TotalCost		
		\$000	Each	\$000	\$000	\$000	\$000	Each	\$000	\$000	\$000	\$000	Each	\$000	\$000		
Hardware	A	2501	VAR	VAR	1439	VAR	VAR	VAR	VAR	2674	VAR	VAR	2973	VAR	VAR		
Support																	
Engineering Support		500			500					500			500				
In-house		175			175					175			175				
Contract																	
TOTAL		3176			2114					3349			3648				

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)											DATE	February 1997
B. APPROPRIATION / BUDGET ACTIVITY												
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												
C. P-1 ITEM NOMENCLATURE												
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A		
Hardware/FY96	Hewlett Packard, Rockville, MD	C/FP (Op)	CECOM	Jan-96	Jun-96	VAR	VAR	Yes	No			
Hardware/FY96	Andrews-SICOM, Garland, TX	C/FP (Op)	CECOM	Mar-96	Sep-96	VAR	VAR	Yes	No			
Hardware/FY96	Converse, Woodbury, NY	C/FP(Op)	CECOM	Apr-96	Oct-96	VAR	VAR	Yes	No			
Hardware/FY96	ESI, Richardson, TX	C/FP(Op)	CECOM	Jun-96	Aug-96	VAR	VAR	Yes	No			
Hardware/FY96	ASC, Winterpark, FL	C/FP	CECOM	Jun-96	Dec-96	VAR	VAR	Yes	No			
Hardware/FY97	Converse, Woodbury, NY	C/FP(Op)	CECOM	Nov-96	Apr-97	VAR	VAR	Yes	No			
Hardware/FY97	ESI, Richardson, TX	C/FP(Op)	CECOM	Jan-97	May-97	VAR	VAR	Yes	No			
Hardware/FY97	Hewlett Packard, Rockville, MD	C/FP (Op)	CECOM	Feb-97	Jul-97	VAR	VAR	Yes	No			
Hardware/FY97	ASC, Winterpark, FL	C/FP (Op)	CECOM	Apr-97	Aug-97	VAR	VAR	Yes	No			
Hardware/FY97	TBS	C/FP	CECOM	May-97	Nov-97	VAR	VAR	Yes	No			
Hardware/FY98	Hewlett Packard, Rockville, MD	C/FP (Op)	CECOM	Feb-98	Jul-98	VAR	VAR	Yes	No			
Hardware/FY98	TBS	C/FP(Op)	CECOM	Apr-98	Aug-98	VAR	VAR	Yes	No			
Hardware/FY98	ASC, Winterpark, FL	C/FP(Op)	CECOM	Jun-98	Oct-98	VAR	VAR	Yes	No			
Hardware/FY99	TBS	C/FP	CECOM	Nov-98	May-99	VAR	VAR	Yes	No			
Hardware/FY99	TBS	C/FP	CECOM	Jan-99	Jul-99	VAR	VAR	Yes	No			
REMARKS: Peculiarities of individual system mission and fielding location require each TROJAN subsystem to be unique with compatible and interoperable hardware and software.												
C/FP (Op)=C/FP (Option)												
ESI=Electrospace Systems Incorporated												
ASC=American Systems Corporation												

BUDGET ITEM JUSTIFICATION SHEET										DATE	February 1997
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE									
OTHER PROCUREMENT / Communications and Electronics Equipment		TROJAN SPIRIT - TERMINALS (TIARA) (BA0333)									
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003			
QUANTITY	0	0	0	0	0	0	0	0	0		
COST (in millions)	15.3	2.1	0.5	0.5	0.0	0.0	0.0	0.0	0.0		
<p>DESCRIPTION: The TROJAN SPIRIT II is a collection of electronics equipment which provides contingency forces with an operational readiness capability providing an intelligence processing and dissemination system consisting of secure voice, secure data, secure facsimile and secondary imagery worldwide via an organic long haul satellite communications network split-based, multi-echelon force projection operations.</p> <p>TROJAN SPIRIT II systems consist of five major subsystems: power generation subsystem; communications subsystem (C, Ku, X Bands; (HF/MSE/CTT receive only) UHF SatCom); prime mission movers with shelters; and communications interface equipment.</p> <p>JUSTIFICATION: FY98 and FY99 fund enhancements to the TROJAN automated switching architecture.</p>											

OPA Cost Analysis			A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			B. WEAPON TROJAN SPIRIT - TERMINALS (TIARA) (BA0333)			C. MANUFACTURER NAME			D. DATE February 1997		
OPA Cost Elements	ID	CD	FY 96			FY 97			FY 98			FY 99		
			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
Hardware	A		\$000 15336	Each *10	\$000 VAR	\$000 2085	Each VAR	\$000 VAR	\$000 479	Each VAR	\$000 VAR	\$000 478	Each VAR	\$000 VAR
TOTAL			15336			2085			479			478		

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE
B. APPROPRIATION / BUDGET ACTIVITY										February 1997
C. P-1 ITEM NOMENCLATURE										
TROYAN SPIRIT - TERMINALS (TIARA) (BA0333)										
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY Each	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REC'D	IF YES W/A
Hardware/FY96	ESI, Richardson, TX	C/FP (Op)	CECOM	Oct-95	Apr-96	10	VAR	Yes	No	
Hardware/FY97	TBS	C/FP	CECOM	Jan-97	Jul-97	VAR	VAR	Yes	No	
Hardware/FY98	ESI, Richardson, TX	C/FP (Op)	CECOM	Dec-97	Jul-98	VAR	VAR	Yes	No	
Hardware/FY99	TBS	C/FP (Op)	CECOM	Dec-98	Jul-99	VAR	VAR	Yes	No	
REMARKS: C/FP (Op) = C/FP (Option) ESI=Electrospace Systems Incorporated										

BUDGET ITEM JUSTIFICATION SHEET										DATE
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE								February 1997
OTHER PROCUREMENT / Communications and Electronics Equipment		MOD OF IN-SVC EQUIP (INTEL SPT) (TIARA) (BZ9750)								
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		
QUANTITY	0	0	0	0	0	0	0	0		
COST (in millions)	18.9	14.4	1.7	0.0	6.2	12.6	13.1	22.0		

DESCRIPTION: This is a roll line containing modification efforts in baby Standard Study Numbers as follows:

Mods for Intelligence Electronic Warfare (IEW) Heavy Force Systems provide for Enhanced TRACKWOLF, AN/TSQ-199, materiel changes to provide Communication Satellite Intercept (CSI) capability and additional workstation positions for improved field reporting and increased collection and processing capabilities, and provide increased communication, flexibility and handling throughout the Direction Finding network. Enhanced TRACKWOLF is a High Frequency (HF) Skywave Communications Intelligence system which supports Echelons Above Corps commanders by supplying intelligence and targeting information to theater level All Source Analysis System.

Mods for IEW Light Force Systems provide for two materiel change/upgrades to: (1) TRAILBLAZER, AN/TSQ-138, SINGGARS Interference Cancellation upgrade to resolve problems (hardware and software) associated with integration of the Single Channel Ground and Airborne Radio System (SINGGARS). SINGGARS is the new generation of Combat Net Radio (CNR). SINGGARS is replacing the AN/VRC-12 family of single channel radios. The integration of SINGGARS requires other hardware and software changes because of differences from the AN/VRC-12 series radios being replaced. (2) TEAMMATE, AN/TRQ-32, Tactical Proficiency Trainer (TM TPT) materiel change will allow the unit commander to conduct operator sustainment training as required while the operator personnel are in garrison on their own system. Operationally, the concept design works by injecting a modulated Radio Frequency (RF) signal into the TEAMMATE's RF Distribution Unit from which simulations could be made for the TEAMMATE system with a realistic environment simulator that will simulate communication intercept, AN/TQ-32A(V)2 Direction Finding (DF), DF net, and Command, Control and Reporting capabilities as part of the TM systems function.

Mods for Ground Base Common Sensor (GBCS) (TIARA) add Electronic Countermeasures (ECM) and other materiel changes to limited procurement models.

JUSTIFICATION: The FY98 funds complete the fielding of TRAILBLAZER SINGGARS Interference Cancellation Modification Kits to support approved materiel change/upgrade requirement and provide commanders a system that can communicate with other forces on the automated battlefield.

BUDGET ITEM JUSTIFICATION SHEET		DATE
APPROPRIATION / BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE	February 1997
OTHER PROCUREMENT / Communications and Electronics Equipment	MOD OF IN-SVC EQUIP (INTEL SPT) (TIARA) (BZ9750)	

OSIP No.	Description								
Classification	All PYs	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	
1-93-07-0009	TRACKWOLF/Enhanced TRACKWOLF MODS								
Operational	19.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
1-91-07-0003	SINGARS Interference Cancellation								
Operational	16.5	14.4	1.7	0.0	0.0	0.0	0.0	0.0	
1-93-07-0002	TEAMMATE Tactical Proficiency Trainer (TPT)								
Operational	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
0-00-00-0000	MC Mods for GBCS (No P3a Set)								
Operational	0.0	0.0	0.0	0.0	6.2	12.6	13.1	22.0	
Totals	42.9	14.4	1.7	0.0	6.2	12.6	13.1	22.0	

MODIFICATION INSTALLATION SUMMARY									
									Date
									February 1997
(TOA, Dollars in Millions)									
System/Modification	FY								
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	TOTAL
<i>No P3a Set for modification</i>									
MOD OF IN-SVC EQUIP (INTEL SPT) (TIARA)									
BZ9750	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
TRACKWOLF/Enhanced TRACKWOLF MODS									
SINGGARS Interference Cancellation	0.0	0.1	0.3	0.0	0.0	0.0	0.0	0.0	0.4
TEAMMATE Tactical Proficiency Trainer (TPT)	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
MC Mods for GBCS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Totals	0.5	0.1	0.3	0.0	0.0	0.0	0.0	0.0	0.9

INDIVIDUAL MODIFICATION		Date	February 1997
MODIFICATION TITLE: TRACKWOLF/Enhanced TRACKWOLF MODS 1-93-07-0009			
MODELS OF SYSTEMS AFFECTED: TRACKWOLF, AN/TSQ-152, SSN: V18200 Enhanced TRACKWOLF, AN/TSQ-199, SSN: V18200			
DESCRIPTION / JUSTIFICATION:			
<p>TRACKWOLF (TW)/ENHANCED TRACKWOLF (ETW) are High Frequency (HF) Skywave Communications Intelligence systems which support Echelons Above Corps commanders by supplying intelligence and targeting information to theater level All Source Analysis System. Materiel Changes (MC) will provide National and Army intelligence community with a collection asset better equipped to meet the requirements of a rapidly changing and highly diverse HF environment. There are a number of enhancements which have been identified to keep the unit abreast of modern technological advances and changing threat. ETW is a congressionally directed program to resolve transportability shortfalls of the original TW system noted after operation DESERT STORM. ETW is housed entirely within transit cases for rapid deployment, ease of set up and tear down, and allow maximum flexibility of power source selection. Software mods will allow for the automatic detection of the most modern modulations. MC's will provide analytical operators more extensive data base management functionality and improved in-garrison and field reporting capability; collection operators increased collection and processing capabilities; and provide increased communication, flexibility and handling throughout the DF network.</p>			
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:			
1. Add Engineering Change Proposal (ECP) 40, Satellite Communications Capability DF Flashnet		PLANNED	ACCOMPLISHED
CONTRACT AWARD DATE		Jun-94	Jun-94
INSTALLATION START		Aug-95	Aug-95
INSTALLATION COMPLETE		Dec-95	Oct-95
2.3.4. Add ECP 43 Improved audio recorder, add ECP 41 Squelch control, add ECP 44 CROSSHAIR			
CONTRACT AWARD DATE		Mar-95	Mar-95
INSTALLATION START		Aug-95	Aug-95
INSTALLATION COMPLETE		Dec-95	Dec-95
5.6. Add ECP 1 Communication Satellite Intercept Capability to Enhanced TRACKWOLF and add ECP 2 additional workstation positions to Enhanced TRACKWOLF.			
CONTRACT AWARD DATE SATCOM ECP		Oct-95	Nov-95
CONTRACT AWARD DATE ADDITIONAL OPERATOR POSITIONS		Mar-96	Mar-96
INSTALLATION START		Sep-96	Sep-96
INSTALLATION COMPLETE		Feb-98	

Installation Schedule: TRACKWOLF/Enhanced TRACKWOLF MODS 1-93-07-0009												
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	Date	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	
Inputs												Total
FY 1996 & Prior	5											6
FY 1997												
FY 1998												
FY 1999												
Outputs												
FY 1996 & Prior	5											6
FY 1997												
FY 1998												
FY 1999												
Inputs												Total
FY 2000	1	2	3	4	1	2	3	4	1	2	3	4
FY 2001												
FY 2002												
FY 2003												
Outputs												
FY 2000												
FY 2001												
FY 2002												
FY 2003												
Remarks:												
Enhanced TRACKWOLF Satellite Intercept Capability Mod will require minor installation (plug in Antenna) that the unit can perform and will not require installation costs in FY98.												

INDIVIDUAL MODIFICATION		Date	February 1997
MODIFICATION TITLE: SINGGARS Interference Cancellation 1-91-07-0003			
MODELS OF SYSTEMS AFFECTED: AN/TSQ-138 (TRAILBLAZER)			
<p>DESCRIPTION / JUSTIFICATION:</p> <p>This Materiel Change will resolve problems (hardware and software) associated with integration of the Single Channel Ground and Airborne Radio System (SINGGARS) into Intelligence Electronic Warfare (IEW) systems. SINGGARS is the new generation of Combat Net Radio (CNR). It is replacing the AN/VRC-12 family of single channel radios. Fieldings have been completed in SOUTHCOM and Korea and are scheduled to continue through FY97 until all of the Army is converted to SINGGARS. SINGGARS provides effective Electronic Counter-Countermeasures (ECCM) by randomly hopping to preassigned frequencies. This random hopping causes anomalies in IEW mission equipment which requires hardware/software changes. In addition, its integration into IEW systems requires other hardware and software changes because of differences from the AN/VRC-12 series radios being replaced.</p>			
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:			
		PLANNED	ACCOMPLISHED
INPROCESS REVIEW/PRODUCTION DECISION		Sep-93	Sep-93
CONTRACT AWARD FOR 3 MODELS		Mar-94	Mar-94
COMPETITIVE PRODUCTION CONTRACT AWARD		Jun-96	Jun-96
MATERIEL FIELDING AGREEMENT/MWO FIELD PLAN NEGOTIATED		Mar-97	
FIRST KIT APPLIED		Sep-97	
LAST KIT APPLIED		Sep-98	

MODIFICATION TITLE (Cont):

SINGGARS Interference Cancellation 1-91-07-0003

FINANCIAL PLAN: (\$ in Millions)

	FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
PROCUREMENT																				
Kit Quantity	8	14.0	32	12.6															40	26.6
Installation Kits																				
Installation Kits Nonrecurring																				
Equipment																				
Equipment Nonrecurring		0.1		0.3																0.4
Engineering Change Orders		0.3																		0.3
Data																				
Training Equipment																				
Support Equipment																				
Other		2.1		1.4																4.9
Interim Contractor Support																				
Installation of Hardware																				
FY 1996 & Prior Eqpt -- Kits	3		5	0.1															8	0.1
FY 1997 Eqpt -- Kits																				
FY 1998 Eqpt -- Kits																			32	0.3
FY 1999 Eqpt -- Kits																				
FY 2000 Eqpt -- kits																				
FY 2001 Eqpt -- kits																				
FY 2002 Eqpt -- kits																				
FY 2003 Eqpt -- kits																				
(FY(TC) Eqpt (xx kits)																				
Total Installation Cost	3		5	0.1	32	0.3													40	0.4
Total Procurement Cost		16.5		14.4		1.7														32.6

METHOD OF IMPLEMENTATION Contractor Fielding Teams ADMINISTRATIVE LEADTIME: 9 Months PRODUCTION LEADTIME: 15 Months
 Contract Dates: FY 1997: Dec-96 FY 1998: FY 1999: FY 1999:
 Delivery Date: FY 1997: Feb-98 FY 1998: FY 1999:

Installation Schedule: SINGARS Interference Cancellation 1-91-07-0003															
FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003	
& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3
Inputs															
FY 1996 & Prior	3			1	3	1									
FY 1997						8	12	12							
FY 1998															
FY 1999															
Outputs															
FY 1996 & Prior	3			1	3	1									
FY 1997						8	12	12							
FY 1998															
FY 1999															
Inputs															
FY 2000	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3
FY 2001															
FY 2002															
FY 2003															
Outputs															
FY 2000															
FY 2001															
FY 2002															
FY 2003															
Remarks:															
The FY96 deliveries of 3 models are to be provided to the competitive contractor as GFE and have been installed in vehicles with prior FY funds.															

INDIVIDUAL MODIFICATION		Date	February 1997																		
MODIFICATION TITLE:	TEAMMATE Tactical Proficiency Trainer (TPT) 1-93-07-0002																				
MODELS OF SYSTEMS AFFECTED:	Radio Set, Receiving AN/TRQ-32, SSN: V07700																				
DESCRIPTION / JUSTIFICATION:	<p>TEAMMATE Tactical Proficiency Trainer (TM TPT) will allow the unit commander to conduct operator sustainment training as required while the operator personnel are in garrison on their own system. The TM TPT requirement is documented in Operational Requirements Document dated 7 Dec 92 and is required for systems fielded to active and reserve units. TM TPT will greatly enhance operator proficiency training and is an absolute requirement for TEAMMATE systems fielded to the Regional Training Sites Intelligence - SIGINT (RTSI-S) established for the in garrison training of reserve forces. Concept design includes two Versa Module Euro card (VME) circuit cards with cabling and two Computer Software Configuration Items (CSCI). Operationally, the concept design works by injecting a modulated RF signal into the TEAMMATE's RF Distribution Unit from which simulations are made for the TEAMMATE system with a realistic environment simulator that will simulate communication intercept, AN/TRQ-32A(V)2 Direction Finding (DF), DF net, and Command, Control and Reporting capabilities as part of the TM systems function. TM TPT will reduce administrative Temporary Duty (TDY) costs associated with training.</p>																				
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:	<table border="0"> <thead> <tr> <th></th> <th>PLANNED</th> <th>ACCOMPLISHED</th> </tr> </thead> <tbody> <tr> <td>CONTRACT AWARD DATE</td> <td>Dec-93</td> <td>Dec-93</td> </tr> <tr> <td>FIRST PRODUCTION HARDWARE DELIVERED</td> <td>May-95</td> <td>Jun-95</td> </tr> <tr> <td>MATERIEL FIELDING AGREEMENT/MWO FIELDING PLAN NEGOTIATED</td> <td>May-95</td> <td>May-95</td> </tr> <tr> <td>FIRST KIT APPLIED</td> <td>Aug-95</td> <td>Aug-95</td> </tr> <tr> <td>LAST KIT APPLIED</td> <td>Nov-96</td> <td>Nov-96</td> </tr> </tbody> </table>				PLANNED	ACCOMPLISHED	CONTRACT AWARD DATE	Dec-93	Dec-93	FIRST PRODUCTION HARDWARE DELIVERED	May-95	Jun-95	MATERIEL FIELDING AGREEMENT/MWO FIELDING PLAN NEGOTIATED	May-95	May-95	FIRST KIT APPLIED	Aug-95	Aug-95	LAST KIT APPLIED	Nov-96	Nov-96
	PLANNED	ACCOMPLISHED																			
CONTRACT AWARD DATE	Dec-93	Dec-93																			
FIRST PRODUCTION HARDWARE DELIVERED	May-95	Jun-95																			
MATERIEL FIELDING AGREEMENT/MWO FIELDING PLAN NEGOTIATED	May-95	May-95																			
FIRST KIT APPLIED	Aug-95	Aug-95																			
LAST KIT APPLIED	Nov-96	Nov-96																			

Installation Schedule: TEAMMATE Tactical Proficiency Trainer (TPT) 1-93-07-0002												
FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		February 1997
& Prior		1	2	3	4	1	2	3	4	1	2	3
Inputs												
FY 1996 & Prior		68	3									
FY 1997												
FY 1998												
FY 1999												
Outputs												
FY 1996 & Prior		68	3									
FY 1997												
FY 1998												
FY 1999												
Inputs												
FY 2000		1	2	3	4	1	2	3	4	1	2	3
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Outputs												
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FY 2002												
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FY 2000		1	2	3	4	1	2	3	4	1	2	3
FY 2001												
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Outputs												
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Outputs												
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FY 2001												
FY 2002												
FY 2003												
Inputs												
FY 2000		1	2	3	4	1	2	3	4	1	2	3
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Outputs												
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FY 2001												
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FY 2003												
Inputs												
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FY 2002												
FY 2003												
Inputs												
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FY 2003												
Inputs												
FY 2000		1	2	3	4	1	2	3	4	1	2	3
FY 2001												
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Inputs												
FY 2000		1	2	3	4	1	2	3	4	1	2	3
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FY 2001												
FY 2002												
FY 2003												
Inputs												
FY 2000		1	2	3	4	1	2	3	4	1	2	3
FY 2001												
FY 2002												
FY 2003												
Outputs												
FY 2000												
FY 2001												
FY 2002												
FY 2003												
Inputs												
FY 2000		1	2	3	4	1	2	3	4	1	2	3
FY 2001												

BUDGET ITEM JUSTIFICATION SHEET										DATE
APPROPRIATION / BUDGET ACTIVITY										February 1997
OTHER PROCUREMENT / Communications and Electronics Equipment					P-1 ITEM NOMENCLATURE					ITEMS LESS THAN \$2.0M (TIARA) (BK5278)
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	2001	FY 2002	FY 2003		
QUANTITY	0	0	0	0	0	0	0	0	0	
COST (in millions)	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.7	0.7	
<p>DESCRIPTION:</p> <p>Supports automation requirements for the Army Intelligence and Electronic Warfare Master Plan (AIMP). AIMP concurrently uses capabilities from the Force Integration Masterplanner (FIM) and Joint Prototyping Office (JPO) capabilities to develop decision support aids to facilitate development of intelligence architectures and systems. FIM is a computer-based system using off-the-shelf software to support PPBES decision making in the Intelligence and Electronic Warfare (IEW) community. JPO supports digitization efforts to improve intelligence command and control functionality, investigating and testing capabilities that can be integrated into future intelligence systems.</p> <p>JUSTIFICATION:</p> <p>The FY98/99 funds will be used to replace proprietary and obsolete hardware with standard COTS UNIX platforms and software. This provides the potential for interoperability with other UNIX applications, reduces hardware maintenance costs, and provides significantly better processing capability. FY98/99 funds will also procure a high-quality, high-volume color printer to provide hardcopies of FIM theater architecture displays, including maps and force laydowns. Hardware and software procured will support HQDA (DAMO-FDI, DAMI-PP) and FIM/JPO field support sites at Fort Belvoir (INSCOM), Fort Huachuca (USAIC), Fort Monmouth (CECOM), USAREUR, III Corps, and other locations.</p>										

BUDGET ITEM JUSTIFICATION SHEET										DATE
APPROPRIATION / BUDGET ACTIVITY										February 1997
OTHER PROCUREMENT / Communications and Electronics Equipment					P-1 ITEM NOMENCLATURE					SHORTSTOP (VA8000)
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		
QUANTITY	0	20	0	0	0	0	0	0	0	
COST (in millions)	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

The SHORTSTOP Electronic Protection System (SEPS) is a fully integrated Radio Frequency Countermeasure system which is designed to provide protection for personnel and high value assets against proximity fuzes. SHORTSTOP will consist of three (3) configurations: Manpack, Vehicle Mount, and Stand-Alone. SHORTSTOP will maximize tactical utility and provide protection against indirect fire. SHORTSTOP will be used by Infantry, Engineer, Armor, Field Artillery and Intelligence units to enhance survivability.

FY97 funding is a result of a Congressional plus-up to support an Urgent Requirement to provide SHORTSTOP units to Korea.

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				B. WEAPON SHORTSTOP (VA8000)				C. MANUFACTURER NAME		D. DATE February 1997	
OPA Cost Elements	ID CD	FY 96		FY 97		FY 98		FY 99					
		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	TotalCost \$000	UnitCost \$000	Qty Each	UnitCost \$000
Hardware	B				3973	20	199						
Engineering Support Government Contractor					197 261								
Data					40								
System Test/Evaluation					322								
Fielding					23								
Program Mgmt (Admin)					184								
TOTAL					5000								

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE
B. APPROPRIATION / BUDGET ACTIVITY										February 1997
C. P-1 ITEM NOMENCLATURE										
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment										
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY Each	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A
Hardware										
FY 97	Whittaker Electronic Systems Simi Valley, California	SS/FFP	CECOM	Sep-97	Dec-98	20	199	No	No	
REMARKS:										

BUDGET ITEM JUSTIFICATION SHEET										DATE	February 1997
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE									
OTHER PROCUREMENT / Communications and Electronics Equipment		COUNTERINTELLIGENCE/SECURITY COUNTERMEAS (BL5283)									
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003			
QUANTITY	0	0	0	0	0	0	0	0			
COST (in millions)	2.5	1.6	2.3	1.7	1.9	2.7	2.7	2.8			

CLASSIFIED PROGRAM: INFORMATION WILL BE PROVIDED UPON REQUEST.

BUDGET ITEM JUSTIFICATION SHEET										DATE	February 1997
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE									
OTHER PROCUREMENT / Communications and Electronics Equipment		SENTINEL (WK5053)									
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003			
QUANTITY	24	28	12	15	10	16	0	0			
COST (in millions)	61.9	68.8	41.0	40.1	34.3	51.5	16.7	34.2			
<p>DESCRIPTION: The Sentinel (formerly known as Forward Area Air Defense Ground Based Sensor (FAAD GBS)), AN/MPQ-64, consists of a radar-based sensor with its prime mover/power, identification friend or foe (IFF), and FAAD Command, Control, and Intelligence (C2I) interfaces. The sensor is an advanced three dimensional battlefield X-Band air defense phased-array radar with an instrumented range of 40 km. The Sentinel is capable of operating day or night, in adverse weather conditions, in the battlefield environments of dust, smoke, aerosols, and enemy countermeasures. It provides 360 degree azimuth coverage for acquisition tracking. The Sentinel contributes to the digital battlefield by automatically detecting, classifying, identifying, and reporting targets (cruise missiles, and unmanned aerial vehicles (UAV's), rotary wing and fixed wing aircraft). Targets can be hovering to fast moving, as well as, from nap of the earth to the maximum engagement altitude of FAAD weapons. Very accurate and quick reacting, Sentinel acquires targets sufficiently forward of the Forward Line of Troops to improve FAAD weapons reaction time and allow engagement at optimum ranges. The Sentinel integrated IFF reduces the potential for fratricide of Army Aviation and Air Force aircraft. Highly mobile and reliable, the Sentinel Anti-Radiation Missile and Electronic Countermeasures resistant performance support Army Corps and Divisional Air Defense operations across the full spectrum of conflict.</p> <p>JUSTIFICATION: The Forward Area Alerting Radar (FAAR) was retired in FY 90 because of low efficiency and high operating costs. Currently, divisional air defense relies on the manual Short Range Air Defense (SHORAD) control system. Scout teams use binoculars to search for aircraft. The teams then transmit target information over voice radios to the Air Battle Management Operation Center. Information passed over the voice nets is neither timely, accurate, nor adequate. The small piece of the battlefield the scouts observe produces significant risks to the rear of the division and exposed flanks on the non-linear battlefield. Additionally, the rapidly escalating proliferation of UAV's and remote piloted vehicles (RPV's) further limits air defense unit commander's ability to detect, acquire, and destroy these reconnaissance vehicles in critical counter-reconnaissance, intelligence, surveillance, and target acquisition (RISTA) operations. The Sentinel system will resolve the critical range and visibility constraints resulting from binoculars or "eyeball" target acquisition on the battlefield. FY 98 and FY 99 funds provide production hardware for Force Package 3 units.</p>											

(ID CODE: A)

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				B. WEAPON SENTINEL (WK5053)				C. MANUFACTURER NAME Hughes Aircraft Company, Forrest, MS				D. DATE February 1997	
OPA		FY 96		FY 97		FY 98		FY 99		FY 98		FY 99		FY 99	
Cost Elements		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each
HARDWARE SENTINEL SYSTEMS		47882	24	1995	53589	28	1914	28463	12	2372	31518	15	2101		
TRAINING		1563			356			470			758				
ENGINEERING CHANGE ORDERS		596			1042			2704			1173				
DATA		700			244			643			688				
SYSTEM TEST & EVALUATION		490			2636										
INTERIM CONTRACTOR SUPPORT		3938			3598			3315			774				
ENGINEERING SUPPORT LABOR		2582			2023			1391			1425				
SIMULATIONS		685			989			602			494				
FIELDING		75			688			496			498				
SOFTWARE MAINTENANCE - Contract		1459			1150			1000			921				
PROGRAM MGT/ADMIN LABOR IN-HOUSE		886			780			756			772				
LABOR CONTRACTS		1026			1688			1174			1050				
Subtotal - PROGRAM MGT/ADMIN		1912			2468			1930			1822				
TOTAL		61882			68783			41014			40071				
<p>* NOTE: Funding supports procurement of the quantities shown for FYs 98 and 99 above versus quantities shown in the database. The database will be revised to reflect revised quantities.</p>															

* NOTE:
Funding supports procurement of the quantities shown for FYs 98 and 99 above versus quantities shown in the database. The database will be revised to reflect revised quantities.

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE	February 1997								
B. APPROPRIATION / BUDGET ACTIVITY		C. P-1 ITEM NOMENCLATURE								SENTINEL (WK5053)									
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		CONTRACT METHOD AND TYPE		CONTRACTED BY		AWARD DATE		DATE OF FIRST DELIVERY		QTY		UNIT COST \$000		SPECS AVAIL NOW		SPEC REV REQ'D		IF YES W/A	
LINE ITEM / FISCAL YEAR		CONTRACTOR AND LOCATION																	
HARDWARE																			
SENTINEL SYSTEMS																			
FY 96		Hughes Aircraft Co., Forrest MS		Option		MICOM		Feb-96		May-97		24		1995		Yes		No	
FY 97		Hughes Aircraft Co., Forrest MS		Option		MICOM		Feb-97		May-98		28		1914		Yes		No	
FY 98		Hughes Aircraft Co., Forrest MS		Option		MICOM		Feb-98		May-99		12		2189		Yes		No	
FY 99		Hughes Aircraft Co., Forrest MS		Option		MICOM		Feb-99		May-00		15		2101		Yes		No	
REMARKS:																			

FY 00 /01 BUDGET PRODUCTION SCHEDULE										P-1 ITEM NOMENCLATURE		SENTINEL (WK5053)		DATE		February 1997	
										Fiscal Year 00		Fiscal Year 01					
										Calendar Year 00		Calendar Year 01					
										Prior 1 Oct.		After 1 Oct.		Prior 1 Oct.		After 1 Oct.	
										MFR		MFR		MFR		MFR	
										Number		Number		Number		Number	
										REACHED		REACHED		REACHED		REACHED	
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BUDGET ITEM JUSTIFICATION SHEET										DATE
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE								
OTHER PROCUREMENT / Communications and Electronics Equipment		NIGHT VISION DEVICES (KA3500)								
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		
QUANTITY	0	0	0	0	0	0	0	0		
COST (in millions)	83.7	164.9	85.3	83.8	141.8	142.0	149.9	148.8		
<p>DESCRIPTION: Night Vision Devices (KA3500) is a summary budget line. There are six subsidiary lines which are: K36400 Night Vision, AN/PVS-7 AID; K22900, AN/PAS-13 Thermal Weapon Sight (TWS); K38400, AN/PXX-X Target Location Observation System (TLOS); K30400, GEN II FLIR Horizontal; K38300, LRAS-3 Integration; K30800, AN/PVH-1&2 Lightweight Video Reconnaissance System (LVRS); (1): The AN/PVS-7 is a lightweight, monocular Night Vision Goggle consisting of an Objective Lens Assembly, one state-of-the-art Third Generation Image Intensifier tube, and two Eyepiece Lens Assemblies integrated into a housing which is affixed to the user's head or helmet. The AN/PVS-7 is used by individual soldiers at night to perform Combat, Combat Support, and Combat Service Support operations. (2): The AN/PAS-13 is a multi-purpose Thermal Weapon Sight designed to be mounted on all Infantry Individual and Crew Served Weapons. It is a GEN II Thermal Device which significantly improves dismounted Infantry operation capability by increasing range and enabling both day and night vision through smoke, fog, battlefield obscuration and in extremely low light levels such as under triple canopy jungle. (3): The AN/PXX-X is a Target Location Observation System which is an active or passive, day or night sight. It is designed to detect threat Optical and Electro-Optical Systems. The TLOS can be used as a covert illuminator and fire direction pointer. (4): The GEN II FLIR Horizontal Integration program will horizontally integrate GEN II FLIR technical capability into critical, high priority combat platforms. It will enable the Army to insert key technology into the highest priority forces e.g. M1 Abrams, Long Range Advanced Scout Surveillance System (LRAS-3), Bradley Fighting Vehicle System. (5): The LVRS is a system designed to capture and transmit still video images through military radios. The images are captured with a portable AN/PVH-1 LVRS Out Station which transmits the captured image to the AN/PVH-2 LVRS Base Station for analysis and dissemination. (6): The Long Range Advanced Scout Surveillance System (LRAS-3) is a long-range multi-sensor system for US Army Scouts which will provide the capability to detect, recognize, identify, range and determine the location of potential targets. (7): The 25MM GEN III Tubes are direct replacement for the GEN II Tubes and will upgrade GEN II equipped AN/PVS-4, Individual Weapon Sights.</p> <p>JUSTIFICATION: The FY98 and FY99 funds enable the Army to effectively conduct "around the clock" combat and effectively "own the night" to help dominate maneuver. This will be met through the procurement of the AN/PVS-7, TWS, TLOS, LVRS, and LRAS-3. All FY98 and FY99 procurements are for fielding to the Core Contingency Operations Forces.</p>										

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				B. WEAPON NIGHT VISION DEVICES (KA3500)				C. MANUFACTURER NAME		D. DATE February 1997			
OPA		FY 96				FY 97				FY 98				FY 99	
Cost Elements		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost		
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000		
HARDWARE															
AN/PVS-7 AID (K36400), NIGHT VISION *	A	35000	11569	3	54778	18596	3	24264	7130	3	7516	2222	3		
AN/PAS-13 (K22900) NIGHT VISION TWS	A	18107	717	25	14458	658	22	14421	706	20	12697	646	20		
TWS with Laser Range Finder (LRF)	A				24500	979	25	16422	707	23	14696	646	23		
AN/PXX-X (K38400), NIGHT VISION TLOS	A	4025	121	33	15753	328	48	18160	454	40	2720	68	40		
TLOS Enhanced	B														
AN/PVH-(1&2) LVRS (K30800)	A	1984	82	24	2217	94	24	2108	90	23	2630	110	24		
LRAS3 (K38300), NIGHT VISION A-Kit	B														
B-Kit	B														
AN/PVS-10 (K41500) Sniper Night Sight	A				10000	1647	6								
AN/PAQ-4 (K35000) NIGHT VISION, IAL Task Force Eagle (BOSNIA)	A	1000			5050	19210									
AN/PVS-6 (B53800) MELIOS Ancillary Equipment for fielded MELIOS	A				7258	464	16								
HTI TRAINING DEVICES (K30400)		3507			2742										
AN/PEQ-2					5000	5100	1								
25MM GEN III TUBES		8000	3374	2											
TLOS Non Recurring Costs					4000										
TLOS Initial Product Test					3000										
TLOS FACILITIZATION					2000										
SUPPORT															
ECO's		523			370			370			370				
DATA		508			480			466			421				
SYS TEST & EVAL		492			2340			345			356				
ENGINEERING SPT															
IN-HOUSE		2223			2018			1892			1492				
CONTRACT		1137			995			958			924				
FIELDING		4403			6120			5433			3796				
INTERIM CONTRACTOR SUPPORT		2333			1299										
PROJECT MANAGEMENT ADMIN		484			484			473			453				
TOTAL		83726			164862			85312			83805				
* Includes Title XI funds from USANG which were properly programed under this parent SSN (KA3500) but incorrectly reflected in the RDAISA under its baby SSN K41500 vice K36400.															

* Includes Title XI funds from USANG which were properly programmed under this parent SSN (KA3500) but incorrectly reflected in the RDAISA under its baby SSN K41500 vice K36400.

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE	February 1997
B. APPROPRIATION / BUDGET ACTIVITY											
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment											
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	C. P-1 ITEM NOMENCLATURE						
					DATE OF FIRST DELIVERY	QTY	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQD	NIGHT VISION DEVICES (KA3500)	
AN/PVS-7 AID (K36400), NIGHT VISION (NV)											
FY 96*	ITT, Roanoke, VA	C/FPM-5(5)	CECOM	Mar-96	Sep-98	VAR	3	Yes	No		
FY 96*	Litton, Tempe, AZ	C/FPM-5(5)	CECOM	Mar-96	Nov-98	VAR	3				
FY 96	ITT, Roanoke, VA	C/FPM-2(1)	CECOM	Feb-96	Aug-97	11569	3				
FY 97	ITT, Roanoke, VA	C/FPM-2(2)	CECOM	Apr-97	Apr-98	18596	3				
FY 98	TBS	C/FPM-2(1)	CECOM	Feb-98	Apr-99	7130	3				
FY 99	TBS	C/FPM-2(2)	CECOM	Feb-99	Nov-99	2222	3				
AN/PAS-13 (K22900), NV, TWS											
TWS											
FY 96	Hughes, El Segundo, CA	Option	CECOM	May-96	May-97	717	25	Yes	No		
FY 97	TBS	C/FPM-3(1)	CECOM	Mar-97	Mar-98	658	22				
FY 98	TBS	C/FPM-3(2)	CECOM	Mar-98	Mar-99	706	20				
FY 99	TBS	C/FPM-3(3)	CECOM	Mar-99	Mar-00	646	20				
AN/PAS-13 (K22900), NV, TWS with LRF											
FY 97	TBS	C/FPM-3(1)	CECOM	Mar-97	Mar-98	979	25				
FY 98	TBS	C/FPM-3(2)	CECOM	Mar-98	Mar-99	707	23				
FY 99	TBS	C/FPM-3(3)	CECOM	Mar-99	Mar-00	646	23				
AN/PXX-X (K38400), NV, TLOS **											
FY 96	Lockheed/Martin, Manchester, NH	Option	CECOM	Mar-96	Apr-98	121	33	Yes	No		
AN/PXX-X (K38400), NV, ENHANCED TLOS **											
FY 97	TBS	C/FPM	CECOM	May-97	Oct-98	328	48				
FY 98	TBS	Option	CECOM	Apr-98	Aug-99	454	40				
FY 99	TBS	Option	CECOM	Mar-99	Sep-00	68	40				
AN/PEQ-2 FY97	Insight Technology, Nashua, NH	ID/IQ Option	Crane, IN	Jun-97	Oct-97	5100	1				
REMARKS: * Along with quantities for various customers, these procurements include Title XI funds programmed in this SSN for a quantity of 1185 as requested/funded by the USANG.											
** AN/PXX-X TLOS Program was restructured in March 1996 IAW SECDEF Guidance. Results of restructure are reflected above.											

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE
B. APPROPRIATION / BUDGET ACTIVITY					C. P-1 ITEM NOMENCLATURE					February 1997
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment										NIGHT VISION DEVICES (KA3500)
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A
AN/PVH-(1&2) LVRS (K30800) FY 96 FY 97 FY 98 FY 99	Phototelesis, San Antonio, TX Phototelesis, San Antonio, TX Phototelesis, San Antonio, TX Phototelesis, San Antonio, TX	Option Option Option Option	CECOM CECOM CECOM CECOM	Jul-96 Mar-97 Jan-98 Jan-99	Feb-97 Nov-97 Sep-98 Sep-99	82 94 90 110	24 24 23 24	Yes	No	
LRAS-3 (K38300), NV, A-Kit FY 99	TBS	C/FP	CECOM	Jun-99	Jul-00	70	226	No	No	
LRAS-3 (K38300), NV, B-Kit FY 99	TBS	C/FP	CECOM	Jun-99	Jul-00	70	226	No	No	
25MM GEN III TUBES FY 96	ITT, Roanoke, VA	Option	CECOM	Mar-96	Nov-96	VAR	VAR	Yes	No	
AN/PVS-10 (K41500) Sniper Night Sight FY 97	Litton, Garland, TX	Option	CECOM	Mar-97	Mar-98	1647	6	Yes	No	
AN/PAQ-4 (K35000) NV, IAL FY 97	Insight Technology, Nashua, NH	Option	CECOM	Mar-97	Jan-98	19210	*	Yes	No	
AN/PVS-6 (B53800) MELIOS FY 97	Litton Laser, Apopka, FL	Option	CECOM	Dec-96	Nov-97	464	16	Yes	No	
REMARKS: * Unit Price for AN/PAQ-4 is approximately \$263. Item Manager for this system is CECOM.										

FY 98 / 99 BUDGET PRODUCTION SCHEDULE										P-1 ITEM NOMENCLATURE										NIGHT VISION DEVICES (KA3500)										DATE										February 1997																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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FY 98 / 99 BUDGET PRODUCTION SCHEDULE										P-1 ITEM NOMENCLATURE										NIGHT VISION DEVICES (KA3500)										DATE										February 1997										L										A										T										E										R																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													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BUDGET ITEM JUSTIFICATION SHEET										DATE
APPROPRIATION / BUDGET ACTIVITY										February 1997
OTHER PROCUREMENT / Communications and Electronics Equipment					P-1 ITEM NOMENCLATURE					ARTILLERY ACCURACY EQUIP (AD3200)
QUANTITY	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		
	0	0	0	0	0	0	0	0		
COST (in millions)	11.7	4.6	4.5	4.5	4.4	4.4	4.7	2.2		
<p>DESCRIPTION: Artillery Accuracy Equipment involves the procurement of meteorological, survey and velocity measuring equipment designed to improve accuracy of Army artillery weapons and increase the probability of first round target hits. This category of equipment included procurement of the Meteorological Measuring System (K27800) and Artillery Muzzle Velocity System (AD3250).</p> <p>JUSTIFICATION: The FY98/99 funds support fielded units and readiness requirements for both conventional and Paladin versions of the Muzzle Velocity System.</p>										

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				B. WEAPON ARTILLERY ACCURACY EQUIP (AD3200)				C. MANUFACTURER NAME VARIOUS		D. DATE February 1997	
ID	CD	FY 96		FY 97		FY 98		FY 99		TotalCost \$000	Qty Each	UnitCost \$000	UnitCost \$000
		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each				
OPA Cost Elements													
Meteorological Measuring System		6976	20	349									
North Seeking Gyro		4705	396	12		4649	295	16	4548	306	15	4502	259
Artillery Muzzle Velocity System													17
TOTAL		11681				4649			4548			4502	

BUDGET ITEM JUSTIFICATION SHEET										DATE
APPROPRIATION / BUDGET ACTIVITY										February 1997
OTHER PROCUREMENT / Communications and Electronics Equipment					P-1 ITEM NOMENCLATURE					
					METEOROLOGICAL MEASURING SYS (K27800)					
QUANTITY	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		
	20	0	0	0	0	0	0	0		
COST (in millions)	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
<p>DESCRIPTION: The Meteorological Measuring System (MMS) provides field artillery weather data to the active Army. It is an upper air meteorological data collection, processing and dissemination system that provides necessary data to field artillery, target acquisition, and air weather service to improve their mission capability. It is mobile, provides high altitude Met Data to USAF Weather Service, radiological fallout data to the chemical sections, meet roll on/roll off HMMWV requirements data to 30KM. The Meteorological Hydrogen Generator (MHG) generates hydrogen and diverts gas to a storage tank for later use; provides up to 6 hours of continuous operation. It is environmentally safe and needs only one operator.</p> <p>JUSTIFICATION: Program completed in FY96.</p>										

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		B. WEAPON METEOROLOGICAL MEASURING SYS (K27800)		C. MANUFACTURER NAME ETG		D. DATE February 1997	
OPA Cost Elements		FY 96		FY 97		FY 98		FY 98	
	ID	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each
1. Hardware MMS GPS Upgrades	A	3525	20	176					
2. Testing		210							
3. Engineering Support - Contractor Support - In House Support		328 870							
4. Fielding		1718							
5. Program Management Admin		325							
TOTAL		6976							

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE
B. APPROPRIATION / BUDGET ACTIVITY										February 1997
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment										
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A
MHG										
FY 96	ETG, BALTIMORE, MD	C/OPTION	CECOM	Aug-96	Jul-97	20	176	Yes	No	
REMARKS:										

BUDGET ITEM JUSTIFICATION SHEET										DATE	February 1997
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE									
OTHER PROCUREMENT / Communications and Electronics Equipment		ARTY MUZZLE VELOCITY SYSTEM (AD3250)									
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003			
QUANTITY	0	0	0	0	0	0	0	0	0		
COST (in millions)	4.7	4.6	4.5	4.5	4.4	4.4	4.7	2.2			
<p>DESCRIPTION: The Muzzle Velocity System (MVS) Conventional is a Doppler Radar System which measures the muzzle velocity of artillery projectiles. It consists of weapon-mounted antenna connected to a display unit. The display will provide the muzzle velocity of the last round fired. The MVS will also compute weapon calibration data and store that data. A separate Paladin version of MVS is being fielded for use with the M109A6 Paladin Howitzer. It will not require a display and will be integrated into the M109A6 Paladin Automatic Fire Control System. The MVS will enhance artillery accuracy and first round hit probability. This will decrease projectile and propellant usage and reduce the requirements to adjust fire on target. The MVS will also provide an automated method for calculating and storing weapon calibration data. The MVS is being procured as a non-developmental item (NDI) which includes acquisition of provisioning data, manuals, and training, together with the production hardware for fielding and additional related hardware, Muzzle Velocity Communications Adapters (MCA).</p> <p>JUSTIFICATION: The FY98/99 procurement supports fielded units and readiness requirements for both conventional and Paladin versions of the Muzzle Velocity System.</p>											

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				B. WEAPON ARTY MUZZLE VELOCITY SYSTEM (AD3250)		C. MANUFACTURER NAME RSI Electronics		D. DATE February 1997			
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99					
ID	CD	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	UnitCost \$000	Qty Each	UnitCost \$000		
1. Hardware (RSI) Hardware (Related) Hardware Total	A	4239 240 4479	398	11	3163 1229 4392	295	15	3276 1042 4318	14	306	4328 4328 4328	259	17
2. Engineering Support - In House Support		160			198			205			149		
3. Quality Support (ARDEC)		31			29								
4. Engr Change Proposal		9			4								
5. Total Package Fielding		25			25			25			25		
6. First Destination Transportation		1			1								
TOTAL		4705			4649			4548			4502		

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE	February 1997
B. APPROPRIATION / BUDGET ACTIVITY											
C. P-1 ITEM NOMENCLATURE											
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment											
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY Each	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQD	IF YES W/A	
Conventional*	RSI Electronics Poughkeepsie, NY	C/FFM-5(3)	ACALA	May-96	Mar-97	50	14554	Yes	No		
FY 96		C/FFM-5(4)		Mar-97	Jul-98	49	14554	Yes	No		
FY 97		C/FFM-5(5)		Mar-98	Aug-99	51	14554	Yes	No		
FY 98		C/FFM-5(1)		Mar-99	Dec-00	235	16710	Yes	No		
Conventional - Option*	RSI Electronics Poughkeepsie, NY	Option	ACALA	May-96	Jun-97	96	10697	Yes	No		
FY 96		Option		Mar-97	Nov-98	24	10697	Yes	No		
FY 97		Option		Mar-98	Jul-00	25	10697	Yes	No		
Paladin*	RSI Electronics Poughkeepsie, NY	C/FFM-5(3)	ACALA	May-96	Nov-97	150	10608	Yes	No		
FY 96		C/FFM-5(4)		Mar-97	Nov-98	148	10608	Yes	No		
FY 97		C/FFM-5(5)		Mar-98	Dec-99	150	10608	Yes	No		
FY 98		C/FFM-5(1)		Mar-99	Oct-01	24	16710	Yes	No		
Paladin - Option*	RSI Electronics Poughkeepsie, NY	Option	ACALA	May-96	Jun-97	102	8440	Yes	No		
FY 96		Option		Mar-97	Jun-98	74	8440	Yes	No		
FY 97		Option		Mar-98	Aug-00	80	8440	Yes	No		
FY 98											
REMARKS: * Contract award includes both the Conventional and Paladin.											

BUDGET ITEM JUSTIFICATION SHEET										DATE
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE								
OTHER PROCUREMENT / Communications and Electronics Equipment		MOD OF IN-SVC EQUIP (TAC SURV) (BZ7325)								
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		
QUANTITY	0	0	0	0	0	0	0	0		
COST (in millions)	26.0	15.1	1.2	4.9	1.8	0.0	0.0	0.0		
<p>DESCRIPTION: MOD IN-SERVICE EQUIPMENT (TAC SURV) funds the modifications to the FIREFINDER radars, the AN/TPQ-36 Mortar Locating Radar and the AN/TPQ-37 Artillery Locating Radar. The FIREFINDER equipment is designed to meet the Army's critical need to quickly and accurately locate the large number and variety of hostile indirect fire weapons deployed across the Forward Line of Own Troops (FLOT). The FIREFINDER radars use a combination of radar techniques and computer controlled signal processing to detect and locate enemy field artillery with sufficient accuracy to permit rapid engagement with counterfire. The FIREFINDER radars are capable of locating multiple weapons simultaneously and transmitting the target data to appropriate counterfire elements in near real time. The AN/TPQ-36 is a phased-array X-Band radar which automatically locates mortar and short range rocket launchers. The system is configured on three (3) HMMWVs making it highly mobile and transportable. The AN/TPQ-37 is a larger system requiring a 5-ton truck to pull the Antenna Transceiver Group (ATG). The AN/TPQ-37 is a phased-array S-Band radar with a longer target acquisition range than the AN/TPQ-36 allowing it to locate long range artillery and rockets.</p> <p>JUSTIFICATION: FY 98 funds installation of the AN/TPQ-36(V)8 Electronics Upgrade modification kits which will be fielded to Forward Deployed Units to include the 1st AD and 1st ID, Germany and 2d ID, Korea. FY 99 funds procurement of the Fire Support Digitization hardware/software required to upgrade the AN/TPQ-36(V)5/7s and the Active Army AN/TPQ-37s to allow AFATDS connectivity.</p>										

BUDGET ITEM JUSTIFICATION SHEET		DATE
APPROPRIATION / BUDGET ACTIVITY	OTHER PROCUREMENT / Communications and Electronics Equipment	February 1987
P-1 ITEM NOMENCLATURE		MOD OF IN-SVC EQUIP (TAC SURV) (BZ7325)

[illegible]

Simulator and Training Device Justification										Date
Appropriation / P-1 Line Item		Weapon System (if applicable)				Equipment Nomenclature				February 1997
OTHER PROCUREMENT/MOD OF IN-SVC EQUIP (TAC SURV)		Electronics Upgrade				AN/TPQ-36(V)8				PE
Fin Plan	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	Total	
Quantity (Each)										
Proc (\$000)	5084								5084	
RDT&E (\$000)										
O&S (\$000)										
TRAINING SYSTEM DESCRIPTION: <p>The existing FIREFINDER Trainers support training for the AN/TPQ-36(V)5 and (V)7. They consist of an Operator Trainer (A17E11), a Unit Maintenance Trainer (A17E12) and an Intermediate Maintenance Trainer(06-64). The training devices are utilized at the US Field Artillery School, Ft. Sill, OK.</p> <p>Funds were utilized in FY96 to modify the existing trainers and procure new trainers to align with the AN/TPQ-36(V)8 Electronics Upgrade, Materiel Change Number 1-90-07-0016. The IOC for the AN/TPQ-36(V)8 is 3Q98.</p> <p>A FIREFINDER Training Device, Operator (FTD OP) will be developed to support the AN/TPQ-36(V)8. The trainer will provide two instructor stations and twelve student stations. The FY97 average seat requirement for active Army is estimated at 199 (based on 65% field strength (306)).</p> <p>A FIREFINDER Training Device, Maintenance (FTDM) will be developed to train students in Unit, Direct Support, and General Support maintenance tasks. The FTDM will be used to support a 35M Radar Repairer Course and the Warrant Officer Basic Course. The FY97 average active Army seat requirement is estimated at 88.</p>										

Simulator and Training Device Justification (Page 2)										Date		
Appropriation / P-1 Line Item		Weapon System (if applicable)		Electronics Upgrade		IOC Date		Equipment Nomenclature		February 1997		
OTHER PROCUREMENT/MOD OF IN-SVC EQUIP (TAC SURV)						3Q98		AN/TPQ-36(V)8		PE		
Training Device By Type	Site	Del. Date	Ready For Tng Date	Avg Student Thruput	Prior Years		FY 1997		FY 1998		FY 1999	
					Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost
					Each	\$000	Each	\$000	Each	\$000	Each	\$000
FTD OP	Ft Sill, OK		1Q98	199	2	2797						
FTDM	Ft Sill, OK		1Q98	88	1	2287						
Total						5084						

MODIFICATION INSTALLATION SUMMARY									
									Date February 1997
(TOA, Dollars in Millions)									
System/Modification	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	TOTAL
<i>No P3a Set for modification</i>									
MOD OF IN-SVC EQUIP (TAC SURV)									
BZ7325									
AN/TPQ-36(V)8 Electronics Upgrade	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	1.0
AN/TPQ-37(V)7 ATG Mobility Improvement	0.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.5
AN/TPQ-37(V)8 Enhanced FIREFINDER Block I	0.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.8
Fire Support Digitization	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.8
Totals	0.8	0.5	1.0	0.0	0.8	0.0	0.0	0.0	3.1

INDIVIDUAL MODIFICATION		Date	February 1997
MODIFICATION TITLE:		AN/TPQ-36(V)8 Electronics Upgrade 1-90-07-0016	
MODELS OF SYSTEMS AFFECTED:		AN/TPQ-36(V)7 HMMWV Radar	
DESCRIPTION / JUSTIFICATION:			
<p>The AN/TPQ-36 is the primary target acquisition and counterfire system for the field artillery in support of Divisions, separate Brigades, and rapid deployment task forces and is not projected for replacement. This program incorporates the first electronics upgrade to the 1970s technology of this system and corrects Operation Desert Storm identified deficiencies in range, false target rate, target throughput, target classification and displacement time. This Materiel Change was approved for the electronics upgrade of 59 AN/TPQ-36(V)7 HMMWV Radars. It replaces electronic components, that are rapidly approaching obsolescence, with standard Common Hardware/Software (CHS) and/or Commercial Off-The-Shelf (COTS) equipment. This Materiel Change provides a validated cost benefit of \$48.933M (FY92 constant dollars) attributed to Operational and Support (O&S) savings over twenty years. The FY98 funding is required for installation of the modification kits which will be fielded to Forward Deployed Units to include the 1st AD and 1st ID, Germany and 2d ID, Korea.</p>			
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:			
	PLANNED	ACCOMPLISHED	
Contract Award for LRIP Units	1QFY93	1QFY93	
Hardware Preliminary Design Review (PDR)	4QFY93	4QFY93	
Software PDR	1QFY94	1QFY94	
Critical Design Revise (CDR)	2QFY94	2QFY94	
User Test	1QFY96	2QFY96	
Live Fire Test	2QFY96	3QFY96	
IPR Production Decision	3QFY96	3QFY96	
Full Rate Production Contract Award	4QFY96	4QFY96	
Initial Operational Capability (IOC)	3QFY98		

INDIVIDUAL MODIFICATION															Date	February 1997
MODIFICATION TITLE (Cont): AN/TPQ-36(V)8 Electronics Upgrade 1-90-07-0016																
FINANCIAL PLAN: (\$ in Millions)																
FY 1996 and Prior		FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	TC	TOTAL						
Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
RDT&E																
PROCUREMENT																
19		11										30				
Kit Quantity																
Installation Kits																
	24.4		11.9													36.3
Installation Kits Nonrecurring Equipment																
	24.2		0.3													24.5
Equipment Nonrecurring																
	0.1		0.2													0.3
Engineering Change Orders																
	3.0		0.3													3.3
Data																
	5.1		0.7													5.1
Training Equipment																
	2.7		0.1													3.5
Engineering Support																
Other																
	3.8		0.7													4.6
PM Admin																
	0.2		0.3													0.5
Fielding																
Interim Contractor Support																
Installation of Hardware																
8 *																
FY 1996 & Prior Eqpt -- Kits																
						11	0.5									0.5
FY 1997 Eqpt -- Kits																
						11	0.5									0.5
FY 1998 Eqpt -- Kits																
FY 1999 Eqpt -- Kits																
FY 2000 Eqpt -- kits																
FY 2001 Eqpt -- kits																
FY 2002 Eqpt -- kits																
FY 2003 Eqpt -- kits																
(FY(TC) Eqpt (xx kits)																
8						22	1.0									1.0
Total Installation Cost																
	63.5		14.4													79.1
Total Procurement Cost																
METHOD OF IMPLEMENTATION LRIP-Contract/FRP-Depot																
ADMINISTRATIVE LEADTIME: 3 Months																
PRODUCTION LEADTIME: 15 Months																
Contract Dates: FY 1997: Jan-97 FY 1998: FY 1999:																
Delivery Date: FY 1997: Apr-98 FY 1998: FY 1999:																

Installation Schedule: AN/TPQ-36(V)8 Electronics Upgrade 1-90-07-0016																											
FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		February 1997							
& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Total						
Inputs																											
FY 1996 & Prior		8 *				5		6												19							
FY 1997						5		6												11							
FY 1998																											
FY 1999																											
Outputs																											
FY 1996 & Prior		8 *				5		6												19							
FY 1997						5		6												11							
FY 1998																											
FY 1999																											
Inputs																											
FY 2000		1		2		3		4		1		2		3		4		1		2		3		4		Total	
FY 2001																											
FY 2002																											
FY 2003																											
Outputs																											
FY 2000																											
FY 2001																											
FY 2002																											
FY 2003																											
Remarks:																											
* Eight (8) LRIP Units installed at contractor's facility prior to delivery.																											

INDIVIDUAL MODIFICATION		Date	February 1997
MODIFICATION TITLE:		AN/TPQ-37(V)7 ATG Mobility Improvement 1-92-07-0027	
MODELS OF SYSTEMS AFFECTED:		AN/TPQ-37(V)5 and (V)6	
DESCRIPTION / JUSTIFICATION:			
<p>This Materiel Change (MC) was initiated in response to mobility problems encountered during Operation Desert Storm. These problems included excessive wear of trailer tires, difficulty in moving the trailer through sand, and improper tracking of the trailer behind the assigned prime mover. The Antenna Transceiver Group (ATG) Mobility Improvement Program will apply the Medium Tracked Suspension System (MTSS), produced by Caterpillar, to the M-1048 trailer carrying the AN/TPQ-37 ATG. Testing demonstrated that application of the MTSS provides a wider footprint for the M-1048 trailer which improves trailer mobility in off-road use and does not degrade performance on paved surfaces at highway speeds.</p>			
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:			
	PLANNED	ACCOMPLISHED	
Milestone III IPR Production Decision	3QFY94	3QFY94	
Production Contract Award	4QFY94	4QFY94	
First Article Test Completed	1QFY96	1QFY96	
First Unit Equipped (FUE)	2QFY96	2QFY96	
Application/Fielding Completed	2QFY97		

INDIVIDUAL MODIFICATION																		
AN/TPQ-37(V)7 ATG Mobility Improvement 1-92-07-0027																		
MODIFICATION TITLE (Cont):																		
FINANCIAL PLAN: (\$ in Millions)																		
FY 1996 and Prior	FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$		
RDT&E																		
PROCUREMENT																		
Kit Quantity	26																26	
Installation Kits																		
Installation Kits Nonrecurring																		
Equipment		1.4																1.4
Equipment Nonrecurring		1.2																1.2
Engineering Change Orders																		
Data		0.1																0.1
Training Equipment		0.9																1.0
Engineering Support																		0.2
Other		0.2																
PM Admin																		
Fielding																		
Interim Contractor Support																		
Installation of Hardware																		
FY 1996 & Prior Eqpt -- Kits	17	0.3	9	0.2													26	0.5
FY 1997 Eqpt -- Kits																		
FY 1998 Eqpt -- Kits																		
FY 1999 Eqpt -- Kits																		
FY 2000 Eqpt -- kits																		
FY 2001 Eqpt -- kits																		
FY 2002 Eqpt -- kits																		
FY 2003 Eqpt -- kits																		
(FY(TC) Eqpt (xx kits)																		
Total Installation Cost	17	0.3	9	0.2													26	0.5
Total Procurement Cost		4.1		0.3														4.4

METHOD OF IMPLEMENTATION		Depot	ADMINISTRATIVE LEADTIME:		Months		PRODUCTION LEADTIME:		Months	
Contract Dates:	FY 1997:	N/A	FY 1998:	N/A	FY 1999:	N/A	FY 1999:	N/A	FY 1999:	N/A
Delivery Date:	FY 1997:	N/A	FY 1998:	N/A	FY 1999:	N/A	FY 1999:	N/A	FY 1999:	N/A

Installation Schedule: AN/TPQ-37(V)7 ATG Mobility Improvement 1-92-07-0027												
		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		February 1997
		& Prior		1		2		3		4		FY 2001
Inputs		17	4	5								
FY 1996 & Prior		17	4	5								
FY 1997												
FY 1998												
FY 1999												
Outputs												
FY 1996 & Prior		17	4	5								
FY 1997												
FY 1998												
FY 1999												
Inputs												
FY 2000												
FY 2001												
FY 2002												
FY 2003												
Outputs												
FY 2000												
FY 2001												
FY 2002												
FY 2003												
Remarks:												

INDIVIDUAL MODIFICATION		Date	February 1997
MODIFICATION TITLE:	AN/TPQ-37(V)8 Enhanced FIREFINDER Block I 1-93-07-0001		
MODELS OF SYSTEMS AFFECTED:	AN/TPQ-37(V)5 AND (V)6		
DESCRIPTION / JUSTIFICATION:	<p>This Materiel Change (MC) is vital to keeping the AN/TPQ-37 radars sustainable in the field. The MC is limited to mechanical, electrical, and software changes necessary to maintain the Reliability, Availability, Maintainability (RAM), transportability, mobility and interoperability of the system through FY05. The effort will design, retrofit, and qualify modifications to the system as follows: upgrade the cooling system, and provide for transportability by a C130/141, upgrade the trailer, incorporate a self-survey capability, reduce false locations, correct and incorporate existing long range software, improve the transmitter RAM, integrate the AN/TPQ-36(V)7 Operations Control Group (OCG) on the M-1097. The MC also included preproduction efforts required to provide a survivability suite which integrates an active warning and missile defense system.</p>		
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:			
MS III IPR Production Decision	PLANNED 3QFY94	ACCOMPLISHED 3QFY94	
Kit Production Award to TOAD	3QFY94	3QFY94	
First Article Completed	1QFY96	1QFY96	
First Unit Equipped (FUE)	2QFY96	2QFY96	
Application/Fielding Completed	2QFY97		

INDIVIDUAL MODIFICATION																					
AN/TPQ-37(V)8 Enhanced FIREFINDER Block I 1-93-07-0001																					
MODIFICATION TITLE (Cont):																					
FINANCIAL PLAN: (\$ in Millions)																					
	FY 1996 and Prior		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
RDT&E																					
PROCUREMENT																					
Kit Quantity	26																			26	
Installation Kits																					
Installation Kits Nonrecurring Equipment		10.5																			10.5
Equipment Nonrecurring		11.5																			11.5
Engineering Change Orders																					
Data		2.2																			2.2
Training Equipment																					
Engineering Support		0.7																			0.8
Other																					
PM Admin		1.1																			1.1
Fielding																					
Interim Contractor Support																					
Installation of Hardware																					
FY 1996 & Prior Eqpt -- Kits	17	0.5	9	0.3																26	0.8
FY 1997 Eqpt -- Kits																					
FY 1998 Eqpt -- Kits																					
FY 1999 Eqpt -- Kits																					
FY 2000 Eqpt -- kits																					
FY 2001 Eqpt -- kits																					
FY 2002 Eqpt -- kits																					
FY 2003 Eqpt -- kits																					
(FY(TC) Eqpt (xx kits)																					
Total Installation Cost	17	0.5	9	0.3																26	0.8
Total Procurement Cost		26.5		0.4																	26.9

METHOD OF IMPLEMENTATION				ADMINISTRATIVE LEADTIME:				PRODUCTION LEADTIME:			
Contract Dates:		Depot		FY 1997:		FY 1998:		FY 1999:		FY 1999:	
				N/A		N/A		N/A		N/A	
Delivery Date:				N/A		N/A		N/A		N/A	

INDIVIDUAL MODIFICATION		Date	February 1997
MODIFICATION TITLE:		Fire Support Digitization 1-95-07-XXXX	
MODELS OF SYSTEMS AFFECTED:		AN/TPQ-36 and AN/TPQ-37	
DESCRIPTION / JUSTIFICATION:			
<p>This upgrade will effect the FIREFINDER Operations Control Group (OCG) and will incorporate hardware and software to allow AFATDS connectivity and allow for improved communications, accuracy and throughput. The hardware required will be a Lightweight Computer Unit (LCU) and TACFIRE Control Interface Module (TCIM). FY 99 funding will initiate procurement of the hardware/software required to upgrade the AN/TPQ-36(V)57s and the Active Army AN/TPQ-37s.</p>			
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:			
Program Approval	PLANNED	ACCOMPLISHED	
	1QFY99		
Production Contract Award	1QFY99		

[illegible]

FY 1996 & Prior					
FY 1997					
FY 1998					
FY 1999					
	18	18	18	5	59

FY 1996 & Prior					
FY 1997					
FY 1998					
FY 1999					
	18	18	18	5	59

	14	14
FY 2000		

FY 2002

14

	2001	2002
2001		
2002		
FY 2002		

Remarks:
11 2000

BUDGET ITEM JUSTIFICATION SHEET										DATE
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE								February 1997
OTHER PROCUREMENT / Communications and Electronics Equipment		COMPUTER BALLISTICS: MORTAR XM-30 (K99200)								
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		
QUANTITY	210	232	0	0	0	0	0	0		
COST (in millions)	4.8	6.8	0.0	0.0	0.0	0.0	0.0	0.0		

Description:

The Mortar Ballistic Computer (MBC) calculates ballistics trajectories and gives the mortar user data to elevate gun, set charge, and direct fire for all direct fire for all mortar rounds. The MBC uses state of the art technology to provide digital message capability and mortar firing computations. The MBC will interface with other command and control communication devices to improve required response time and first round accuracy for mortar fire. It incorporates ADA software and is operationally compatible with the forward entry device. The hardware will be a ruggedized hand held computer which weighs less than six pounds (8.9 Lbs with case, carrying straps and 72-hour batteries).

Justification:

The current M23 MBC will not be supportable in the field after FY96 due to repair parts and components no longer being available/procurable. Also, the memory capacity of the current M23 MBC does not support projected mortar ammunition items in inventory. The improved MBC will be capable of accepting software upgrades electronically, thus reducing the time and cost currently required to apply software upgrades via a hardware change to each fielded unit. The FY97 procurement supports replacement of the present M23 MBC which provides ballistic computations for 60mm, 81mm, and 120mm Mortar fire missions and peacetime training. A Mortar Ballistic Computer is required to compute ballistics, provide responsive and timely fire solutions, and eliminate human errors from manual calculation of firing instructions, thereby providing accurate rounds on target.

Ident Code: B

OPA Cost Analysis			A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			B. WEAPON COMPUTER BALLISTICS: MORTAR XM-30 (K99200)			C. MANUFACTURER NAME GTE, MA			D. DATE February 1997		
OPA Cost Elements			FY 96			FY 97			FY 98			FY 99		
ID	CO		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
1. COMPUTER	B		3041	210	14	3436	232	15						
2. INTEGRATED LOGISTICS SUPPORT			150			293								
3. GOV'T ENGINEERING SUPPORT			487			745								
4. FIELDING						466								
5. FIRST ARTICLE/PDN QUAL TEST			546			885								
6. SOFTWARE UPGRADE						1016								
7. FOLLOW-ON TEST & EVAL			603											
Total			4827			6841								

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE
B. APPROPRIATION / BUDGET ACTIVITY										February 1997
C. P-1 ITEM NOMENCLATURE										
COMPUTER BALLISTICS: MORTAR XM-30 (K99200)										
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY Each	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A
1. COMPUTER										
FY 96	GTE, Taunton, MA	Option	CECOM	Dec-96	Jun-97	210	14	Yes	No	
FY 97	GTE, Taunton, MA	Option	CECOM	Mar-97	Oct-97	232	15	Yes	No	
REMARKS: GTE contract with PM Common Hardware/Software Systems awarded Jul 95. Award of FY96 delivery order delayed by PM CH/SS completion of First Article Test. Common hardware computers will be shipped to Tobyhanna Army Depot for software loading, before delivery to field units.										

BUDGET ITEM JUSTIFICATION SHEET							DATE	February 1997
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE						
OTHER PROCUREMENT / Communications and Electronics Equipment		INTEGRATED METEOROLOGICAL SYSTEM (IMETS) - TIARA (BW0021)						
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (in millions)	7.5	3.1	1.4	0.0	8.8	0.0	0.0	0.0
DESCRIPTION:								
<p>IMETS is a mobile tactical automated weather data receiving, processing, and dissemination system designed to provide timely weather and environmental effects forecasts, observations, and decision aid support to the Army. The IMETS is an Army-Furnished system consisting of a standard shelter and vehicle, Army Tactical Command and Control System (ATCCS) common hardware/software (CHS), and communications that will be operated by Air Force weather personnel and maintained within planned Army support for systems and components IAW AR 115-10/AFR 105-3.</p> <p>IMETS is deployed at Echelons Above Corps (EAC), Corps, Division (DIV), Separate Brigade, Armored Cavalry Regiment (ACR) and Special Operations Forces (SOF). Standard Integrated Command Post Shelters (SICPS) mounted on High Mobility Multi-Purpose Wheeled Vehicles (HMMWV) (heavy) house the IMETS. Each system tows a 10-KW silent generator. The total system will utilize CHS, SICPS, vehicles, communications, Army developed software weather products, and Air Force Tactical Forecast System (TFS) developed software weather products to support the Army warfighters.</p> <p>Each IMETS is configured identically and is capable of performing the following functions: (1) receive weather data from all available sources: weather satellites; local and remote weather sensors at higher, lower and adjacent echelon IMETS; weather radar; artillery meteorology sections (ARTYMET), theater forecast units (TFUs) and USAF Global Weather Central; (2) process and display weather information, display weather radar data, display weather satellite data and imagery, and generate Tactical Decision Aids ; (3) disseminate weather data, forecasts, and Tactical Decision Aids via area communications system, to all users and to other IMETS at higher, lower and adjacent echelons; (4) operate independently using High Frequency receivers, satellites, or communications networks as appropriate; and (5) relocate with the unit to which it is assigned.</p>								
JUSTIFICATION:								
<p>FY98 funding supports the fielding of the remaining Block II Systems. Funds also support the concept of a near all weather operational capability. It is imperative that the battlefield commander be provided the most accurate and current weather information. IMETS is the first link in providing this information, allowing the commander to remain situationally aware through a common picture of the battlefield.</p>								
IDENTIFICATION CODE: A								

OPA Cost Analysis		A. APPN/ BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				B. WEAPON INTEGRATED MET SYSTEM (IMETS) - TIARA (BW0021)				C. MANUFACTURER NAME See P-5A		D. DATE February 1997	
ID	OPA Cost Elements	FY 96		FY 97		FY 98		FY 99					
		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
	1. Hardware:												
	- CHS-2 V1 High-Capacity Computer Unit	192	6	32	32	1	32						
	- ChS-2 V1 Software	71		12	12			8					
	- CHS-2 V2 High-Capacity Computer Unit	980	28	35	420	12	35	140	4	35			
	- CHS-2 V2 Software	93		42	42			13					
	- CHS-1/2 Software Maintenance	23		30	30			2					
	- Tactical Comm. Interface Module (TCIM)	72	12	6	36	6	6	12	2	6			
	2. Project Management Administration	525			546			468					
	3. Engineering Support	4127			1368			548					
	4. Interim contractor Support	420			200			120					
	5. Fielding	960			454			68					
	TOTAL	7463			3140			1379					

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE
B. APPROPRIATION / BUDGET ACTIVITY					C. P-1 ITEM NOMENCLATURE					February 1997
OTHER PROCUREMENT / Communications and Electronics Equipment					Integrated Meteorological System (IMETS)					
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A
FY 96										
CHS-2 HCU V1	GTE, Taunton,MA	C/Option	CECOM	Dec-95	Jul-96	6	32	N/A	N/A	N/A
CHS-2 HCU V2	GTE, Taunton,MA	C/Option	CECOM	Dec-95	Jul-96	28	35	N/A	N/A	N/A
CHS-2 TCIM	SAIC, San Diego,CA	C/Option	CECOM	Dec-95	Jul-96	12	6	N/A	N/A	N/A
FY 97										
CHS-2 HCU V2	GTE, Taunton,MA	C/Option	CECOM	Dec-96	Jul-97	12	35	N/A	N/A	N/A
CHS-2 TCIM	SAIC, San Diego,CA	C/Option	CECOM	Dec-96	Jul-97	6	6	N/A	N/A	N/A
CHS-2 HCU V1	GTE, Taunton,MA	C/Option	CECOM	Dec-96	Jul-97	1	32	N/A	N/A	N/A
FY 98										
CHS-2 HCU V2	GTE, Taunton,MA	C/Option	CECOM	Dec-97	Jul-98	4	35	N/A	N/A	N/A
CHS-2 TCIM	SAIC, San Diego,CA	C/Option	CECOM	Dec-97	May-98	2	6	N/A	N/A	N/A
REMARKS: The above hardware is commercial-off-the shelf.										

BUDGET ITEM JUSTIFICATION SHEET										DATE	February 1997
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APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE							SHF TERM (BA9350)	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	
QUANTITY										
COST (in millions)		0.0	9.1	14.3	31.2	34.3	70.9	83.1	51.4	

DESCRIPTION: Super High Frequency (SHF) Tri-Band Advanced Range Extension Terminal (STAR-T) is a Heavy High Mobility Multi-purpose Wheeled Vehicle (HMMWV) mounted, multi-channel Tactical Satellite Terminal (TACSAT). It has a tri-band capability in the Super High Frequency (SHF) range and will operate over commercial and military SHF satellites. Selected terminals will also have an integrated switch that will interface with both commercial and joint military switching systems. The STAR-T has strong joint service applicability and potential for cooperative investment to replace current SHF multi-channel TACSAT terminals and some switching systems.

JUSTIFICATION: FY-98 funds will procure seven STAR-T terminals. FY-99 funds will procure eleven STAR-T terminals. This program will replace the aging fleet of AN/TSC-85/93 Ground Mobile Forces (GMF) terminals by providing tri-band communications capability for split based operations. The AN/TSC-85/93 terminals cannot meet the transportability and deployability requirements of a force projection Army, nor can they exploit commercial space as mandated by OSD. Prolonging the life of these terminals would result in rapidly escalating maintenance costs which negatively impact upon the O&M budget. The STAR-T will replace all GMF terminals at Echelons Above Corps (EAC).

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				B. WEAPON SHF TERM (BA9350)		C. MANUFACTURER NAME RAYTHEON COMPANY		D. DATE February 1997	
ID	OPA Cost Elements	FY 96		FY 97		FY 98		FY 99		UnitCost \$000	UnitCost \$000
		TotalCost \$000	Qty Each	TotalCost \$000	Qty Each	TotalCost \$000	Qty Each	TotalCost \$000	Qty Each		
	HARDWARE *			5607	5	1121	7	598	11	6656	605
	GFE			1295						14600	
	DATA			336						420	
	CONTRACTOR ENGINEERING					1959				1542	
	GOVERNMENT ENGINEERING			477		1135				1158	
	GOVERNMENT PROGRAM MGMT			662		617				665	
	TEST					2171				497	
	INTEGRATION			389						3541	
	FIELDING			77		199				989	
	SUPPORT EQUIPMENT			280						1138	
	TOTAL			9123				14328		31206	

* Unit costs vary due to different configurations and complements of ancillary equipment.

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE
B. APPROPRIATION / BUDGET ACTIVITY										February 1997
C. P-1 ITEM NOMENCLATURE										
SHF TERM (BA9350)										
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY Each	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A
HARDWARE FY 1997	RAYTHEON COMPANY MARLBOROUGH, MA	FFP/OPT	CECOM	Jan-97	Oct-97	5	1121	YES	NO	
FY 1998	RAYTHEON COMPANY MARLBOROUGH, MA	FFP/OPT	CECOM	Dec-97	Mar-98	7	598	YES	NO	
FY 1999	RAYTHEON COMPANY MARLBOROUGH, MA	FFP/OPT	CECOM	Dec-98	Mar-99	11	605	YES	NO	
REMARKS: The STAR-T is a fixed priced option to the Special Operations Forces Tactical Assured Connectivity System (SOFTACS) Tri-Band Terminal contract which was awarded on 28 August 1996.										

BUDGET ITEM JUSTIFICATION SHEET										DATE
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE								
OTHER PROCUREMENT / Communications and Electronics Equipment		ADV FIELD ARTILLERY TACT DATA SYS (AFATDS) (928600)								
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		
QUANTITY	246	196	253	191	264	251	231	250		
COST (in millions)	31.7	31.5	33.2	37.5	38.9	40.7	43.4	41.9		

The AFATDS is a single, integrated battlefield management and decision support system. It will function on the digital battlefield at Battery through Corps level as one of the five battlefield automated systems of the Army Battlefield Command System (ABCS). AFATDS utilizes evolving commercial technology of the ATCCS Common Hardware / Software (CHS) procurement.

AFATDS is designed to overcome the size, vulnerability, high sustainment cost, limited functionality, central processing and training limitations of the present artillery battalion, divisions and corps fire direction systems. AFATDS will take advantage of advancing software technology, graphics, decision aids, and embedded training to expand the Fire Support functions. AFATDS will be the Fire Support node of the ATCCS utilizing the Army Common Operating Environment architecture and providing advanced software automation assistance to the Fire Support elements and interfacing with all subsystems subordinate to AFATDS and other nodes of the ATCCS via the standard communications media available to the force. AFATDS will provide all 27 required Fire Support functions. These 27 functions are grouped in five Fire Support operational needs: Fire Support Execution, Fire Support Planning, Movement Control, Field Artillery Mission Support, and Field Artillery Fire Direction Operations.

Based on the organizational structure to be supported, AFATDS hardware items will be composed of the following: Fire Support Control Terminal (FSCT), Lightweight Computer Unit (LCU), Tactical Communications Interface Modules (TCIM), Printers, Tactical Display Devices and Installation Kits tailored to the force structure and available vehicles. This will all be ATCCS Common Hardware. Responsiveness, survivability, and continuity of operations will be enhanced via dispersed processing centers, intelligent remote terminals, a distributed data base management system and distributed operations. AFATDS will interface/interoperate with all functional control elements of existing and future Army Fire Support Systems, including the other ATCCS Battlefield Functional Area systems, other services employing Fire Support Joint Interoperability Tactical Command and Control System message standards and Allied Forces using NATO Fire Support Standards.

JUSTIFICATION:

AFATDS will greatly enhance the fire support capability of the battlefield through responsiveness, survivability, and continuity of operations. It will overcome the shortcomings that exist in the present fire support system and provide a complete fire support command and control capability to the commander. FY98 will procure equipment for 1 Heavy Division, 1 Armored Cavalry Regiment, the National Training Center, POMCUS and Training Base. FY 99 will procure equipment for 1 Heavy Division, 1 Light Division, 1 Separate Infantry Brigade, the Joint Requirement Training Center, the Combined Maintenance Training Center, and POMCUS.

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				B. WEAPON ADV FIELD ARTILLERY TACT DATA SYS (AFATDS) (B28600)		C. MANUFACTURER NAME See P5-A		D. DATE February 1997			
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99					
ID	CD	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000			
Hardware *	B	17234	246	70	19114	196	98	19493	253	77	22699	191	119
Program Management Administration		1486			2138			2186			2235		
Engineering Support		4404			4435			4539			4657		
Interim Contract Support (ICS)		142			138			138			120		
Fielding													
Total Package Fielding		784			2269			2691			2865		
New Equipment Training		1610			2648			2944			3019		
First Destination Transportation		311			788			1254			1896		
PEO Reprogramming JWID & TOC Integration		5759											
TOTAL		31730			31530			33245			37491		
<p>* FY96 hardware unit cost reflects the average of Training Base, LCUs, and FSCTs. FY97-99 unit cost reflects the varying quantities of FSCTs and peripherals required for fielding. FY99 cost is also skewed by POMCUS IK requirements which are not reflected in the quantities shown. The total cost of POMCUS in FY99 is \$5.9M</p>													

* FY96 hardware unit cost reflects the average of Training Base, LCUs, and FSCTs. FY97-99 unit cost reflects the varying quantities of FSCTs and peripherals required for fielding. FY99 cost is also skewed by POMCUS IK requirements which are not reflected in the quantities shown. The total cost of POMCUS in FY99 is \$5.9M

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE	February 1997
B. APPROPRIATION / BUDGET ACTIVITY											
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				G. P-1 ITEM NOMENCLATURE							
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY Each	UNIT COST \$000	SPECS AVAIL NOW	SPECS REV REQ'D	IF YES W/A	
FY96 FSCT	MILTOPE-FSCT Montgomery, AL	C/OPTION	CECOM	Feb-96	Jun-96	36	93315	YES			
LCU	SAIC-LCU, San Diego, CA	C/OPTION	CECOM	Feb-96	Jul-96	76	38467	YES			
LCU	SAIC-LCU, San Diego, CA	C/OPTION	CECOM	Jul-96	Dec-96	36	38467	YES			
IK	TYAD-IK, Tobyhanna, PA	C/OPTION	CECOM	Jul-96	Jan-97	178	20240	YES			
FSCT	MILTOPE-FSCT Montgomery, AL	C/OPTION	CECOM	Jul-96	Jan-97	40	93315	YES			
LCU	SAIC-LCU, San Diego, CA	C/OPTION	CECOM	Aug-96	Feb-97	58	38467	YES			
FY97 HCU	GTE-HCU, Taunton, MA	C/OPTION	CECOM	Jan-97	May-97	139	89201	YES			
LCU	SAIC-LCU, San Diego, CA	C/OPTION	CECOM	Jan-97	Jun-97	57	36351	YES			
LCU	SAIC-LCU UPGRADE San Diego, CA	C/OPTION	CECOM	Jan-97	Jun-97	174	19259	YES			
IK	TYAD-IK, Tobyhanna, PA	C/OPTION	CECOM	Jan-97	Jun-97	38	15368	YES			
POMCUS	POMCUS, Tobyhanna, PA	C/OPTION	CECOM	Jan-97	Jun-97	VAR	708000	YES			
FY98 HCU	GTE-HCU, Taunton, MA	C/OPTION	CECOM	Jan-98	May-98	102	87333	YES			
LCU	TBD-LCU	C/OPTION	CECOM	Jan-98	Jun-98	151	33291	NO			
LCU	TBD-LCU UPGRADE	C/OPTION	CECOM	Jan-98	Jun-98	62	17839	NO			
IK	TYAD-IK, Tobyhanna, PA	C/OPTION	CECOM	Jan-98	Jun-98	201	18925	YES			
POMCUS	POMCUS, Tobyhanna, PA	C/OPTION	CECOM	Jan-98	Jun-98	VAR	648000	YES			
FY99 HCU	GTE-HCU, Taunton, MA	C/OPTION	CECOM	Jan-99	May-99	101	104950	YES			
LCU	TBD-LCU	C/OPTION	CECOM	Jan-99	Jun-99	90	31688	NO			
LCU UPGRADE	TBD-LCU UPGRADE	C/OPTION	CECOM	Jan-99	Jun-99	93	16978	NO			
IK	TYAD-IK, Tobyhanna, PA	C/OPTION	CECOM	Jan-99	Jun-99	97	18331	YES			
POMCUS	POMCUS, Tobyhanna, PA	C/OPTION	CECOM	Jan-99	Jun-99	VAR	5889000	YES			
REMARKS: This is not a multi-year procurement. FSCTs and LCUs are commercial level off-the-shelf hardware being procured on the Common Hardware/Software (CHS) contract. IKs reflect total cost for Command Vehicles and FIST Installation Kits. FY99 unit cost reflects the cost to modify previously procured equipment to meet technology growth.											

BUDGET ITEM JUSTIFICATION SHEET										DATE	February 1997		
APPROPRIATION / BUDGET ACTIVITY		OTHER PROCUREMENT / Communications and Electronics Equipment					P-1 ITEM NOMENCLATURE					FIRE SUPPORT ADA CONVERSION (B78400)	
		FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003				
QUANTITY		0	0	0	0	0	0	0	0				
COST (in millions)		0.0	0.1	3.3	0.0	0.0	0.0	0.0	0.0				
<p>DESCRIPTION: The Fire Support Ada Conversion (FSAC) is composed of two software programs to provide Command and Control at corps through platoon level for Multiple Launch Rocket System (MLRS) units, and for tactical fire control for cannon units at platoon and battery levels. The FSAC Program funding provides for Package 11 Upgrades and LFED Programs.</p> <p>Package 11 Upgrades will provide existing LCUs with upgraded Hard Disk Drives to support Package 11 software. This requirement is driven by the virtue of: The increases in SCO Unix size, due to the move from SCO V2 to SCO V5 in order to support the requirement for SIP/INC RFCs, COE Communications Server and the SCO disk swapping area required by the removal of the lock and load feature as a software requirement; The use of X-windows and Motif to support the GUI Communications Server interface; The incorporation of the Communications Server, GUI interface and associated disk swapping requirement of the Communications Server to support MIL-STD-188-220; The increase in application's sizes to provide required functionality not covered above. This procurement was directed by ODCSOPS.</p> <p>The Lightweight Forward Entry Device (LFED) is a hand-held programmable input/output unit used for composing, editing, transmitting, receiving and displaying alphanumeric and graphic messages for transmission over standard military radios. The LFED will be used in the Light Divisions by the Forward Observers. On 21 April 1995, ODCSOPS directed PM FATDS to initiate the LFED program with the FSAC funding line.</p> <p>JUSTIFICATION: The FY98 buy consists of the purchase of Hard Disk Drives for the Package 11 Upgrades, and LFEDs to field the 82nd ABN and the 101st AAST.</p>													

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				B. WEAPON FIRE SUPPORT ADA CONVERSION (B78400)				C. MANUFACTURER NAME SAIC- LCU, San Diego, CA				D. DATE February 1997		
OPA Cost Elements		FY 96				FY 97				FY 98				FY 99		
ID	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
1. Hardware LCU * LFED	A										446 1491	583 71	1 21			
2. Project Managment Adminstration					87						45					
3. Engineering Support											448					
4. Interim Contract Support (ICS)																
5. Fielding											898					
* NOTE: LCU Hardware reflects Hard Disk Drives to support Package 11 requirements.																
TOTAL					87						3328					

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE
B. APPROPRIATION / BUDGET ACTIVITY										February 1997
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment					C. P-1 ITEM NOMENCLATURE					
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY Each	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A
FY 98 LCU LFED	SAIC San Diego, CA GTE Tauton, MA	C/OPTION C/OPTION	CECOM CECOM	Jan-98 Jan-98	Jun-98 Jun-98	583 71	765 21000	YES YES		
REMARKS: The above hardware is commercial off-the-shelf equipment being procured on the Common Hardware/Software (CHS) contract.										

BUDGET ITEM JUSTIFICATION SHEET										DATE
APPROPRIATION / BUDGET ACTIVITY										February 1997
OTHER PROCUREMENT / Communications and Electronics Equipment										
P-1 ITEM NOMENCLATURE										
CMBT SVC SUPT CONTROL SYS (CSSCS) (W34600)										
QUANTITY	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		
	38	51	50	56	145	145	137	150		
COST (in millions)	4.5	5.8	5.8	5.7	13.8	13.7	14.0	14.7		

DESCRIPTION: Combat Service Support Control System (CSSCS) is one of the five Battlefield Functional Area (BFA) systems within the Army Tactical Command and Control System (ATCCS), which is an integral component of the Army Battle Command System (ABCS). The CSSCS will rapidly collect, analyze and disseminate CSS information to support the functions of command, control and resource management. CSS commanders and staffs are currently participating in the force level planning and decision-making process through a manual effort of gathering correlating, and analyzing volumes of technical data from the existing Standard Army Management Information Systems (STAMIS). CSSCS will provide timely situational awareness, course of action analysis, and force projection information needed to determine capability to support current operations and sustain future operations. CSSCS uses evolving commercial computer technology of the Common Hardware/Software (CHS), and software built within a Common Operating Environment (COE). CSSCS will be deployed at echelons above corps, divisions, maneuver brigades, separate brigades and armored cavalry regiments. The total OPA requirement for CSSCS is 1,115 systems.

JUSTIFICATION: FY98/99 funds will support the procurement and fielding of the CSSCS in Full Scale Production. Fielding locations include the XVIII Airborne Corps, 101st Air Assault Division, 3rd Infantry Division, and rounding out of the training base. This automated CSSCS node is required to support the fielding and operation of ABCS by providing a responsive automated CSS operation that is capable of supporting the Commander's requirement to perform timely prediction and situation analyses.

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				B. WEAPON CMBT SVC SUPT CONTROL SYS (CSSCS) (W34600)				C. MANUFACTURER NAME GTE, Taunton, MA		D. DATE February 1997	
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99					
		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
1. Hardware, HCU (V2)		2256	38	59	2876	51	56	3260	50	65	3063	56	55
2. Project Management Admin								245			253		
3. Engineering Support		338			352			323			354		
4. Fielding TPF NET FDT		360 931 41			705 1153 48			615 807 51			646 876 58		
5. ICS		210			216			458			490		
6. Other *		411			456								
TOTAL		4547			5806			5759			5740		
*Category includes integration & assembly, data, and common ATCCS logistics													

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE
B. APPROPRIATION / BUDGET ACTIVITY										February 1997
C. P-1 ITEM NOMENCLATURE										
CMBT SVC SUPT CONTROL SYS (CSSCS) (W34600)										
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY Each	UNIT COST \$	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A
1. Hardware, HCU (V2)										
FY 96	GTE, TAUNTON, MA	C/Option	CECOM	Jan-96	May-96	38	59368	Yes		
FY 97	GTE, TAUNTON, MA	C/Option	CECOM	Mar-97	Jul-97	51	56392	Yes		
FY 98	GTE, TAUNTON, MA	C/Option	CECOM	Jan-98	May-98	50	65200	Yes		
FY 99	GTE, TAUNTON, MA	C/Option	CECOM	Jan-99	May-99	56	54696	Yes		
REMARKS:										

CODE "B" ITEM DESCRIPTION		DATE	REPORT CONTROL SYMBOL DD-COMP(AR)1092
APPROPRIATION	ACTIVITY	February 1997	
OTHER PROCUREMENT	Communications and Electronics Equipment		
1. CURRENT DEVELOPMENT AND TEST STATUS		P-1 ITEM NOMENCLATURE CMBT SVC SUPT CONTROL SYS (CSCS) (W34600)	
		SCHEDULE DATE	
		CURRENT (1)	LAST RPTD (2)
		REASON FOR DELAY (3)	
a. INITIAL OPER TEST & EVAL (IOT&E)		Jul-Sep 94	
b. FIRST UNIT EQUIPPED (FUE)		Jun-97	
c. LOW RATE INITIAL PRODUCTION (LRIP)		Apr-95	
d. MSIII/PRODUCTION DECISION		Mar-97	
e. INITIAL OPERATIONAL CAPABILITY (IOC)		Oct-97	
2. ESTIMATED DATE OF APPROVAL FOR SERVICE USE		Mar-97 (MSIII)	
3. EQUIPMENT ITEM(S) TO BE REPLACED			
N/A			
4. EXTENT OF IMPROVEMENT OVER ITEM(S) OF EQUIPMENT TO BE REPLACED			
N/A			
5. DEVELOPMENT CONTRACT INFORMATION			
CONTRACTOR NAME (1)	PLANT LOCATION (2)	COMPONENT (3)	BEYOND BYS (8)
TRW	CARSON, CA	Version 3 SOFTWARE	
Lockheed-Martin	SPRINGFIELD, VA	Version 4/5 SOFTWARE	
OTHER			
TOTAL RDT&E FUNDING		25.3	1.4
		92.5	6.0
6. REMARKS			

* Reference entries on attachment to P-19 if additional space is required to adequately explain delay from previous date.

BUDGET ITEM JUSTIFICATION SHEET										DATE
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE								February 1997
OTHER PROCUREMENT / Communications and Electronics Equipment		FAAD C2 (AD5050)								
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		
QUANTITY	4	4	3	1	0	0	0			
COST (in millions)	42.9	36.7	13.1	8.3	0.0	0.0	0.0		8.3	

DESCRIPTION: The Forward Area Air Defense Command and Control (FAAD C2) System is an automated system deployed with FAAD weapons to provide accurate and timely command, control and targeting information for the weapons systems. The system utilizes non-developmental item sensors (Light and Special Division Interim Sensor and/or Sentinel), computers, displays, and interface hardware integrated with data communication equipment. It automates mission-related functions and uses the Single Channel Ground and Airborne Radio Systems (SINCGARS) for voice and the Army Data Distribution System (ADDS) for data. Limited production of the system was authorized in May 1993 and the first unit equipped was the 101st Airborne Division (Air Assault) in September 1993. Since this fielding occurred prior to the availability of the Enhanced Position Location Reporting System (EPLRS) portion of ADDS, additional SINCGARS radios were added to transmit data. On 1 March 1995, this program was designated an Acquisition Category 1C (ACAT 1C) from ACAT 1D by the Undersecretary of Defense for Acquisition and Technology. In April 1995 full scale production was approved and type classification was granted by the Army Acquisition Executive contingent on the Joint Requirements Oversight Council approval of the Operational Requirements Document; the approval was granted in June 1995.

JUSTIFICATION: FY 1998-FY 1999 dollars will be used to procure Common Hardware Software (CHS) computers, displays, software, and Joint Tactical Information Distribution Systems (JTIDS) to field heavy divisions and remaining units. FAAD C2 enables maneuver commanders to receive air attack warnings from Corps, Division, Brigade, and Battalion to the individual shooter. FAAD C2 also enables the alerting of air defense gunners, enhances capability for air space management, and automated update of acknowledgment of mission and unit position, ultimately enhancing protection to the Force.

ID CODE: A

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				B. WEAPON FAAD C2 (AD5050)		C. MANUFACTURER NAME GTE, Taunton, MA		D. DATE February 1997	
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99			
ID	CD	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	
1. Hardware-combined (CHS and JTIDS)		24369	4	6092	29822	4	7456	8824	3	2941	5893
Tadil J Enhancement		7400									1
2. Project Management Administration		2061		2123				1049			838
3. Fielding		604		763				700			387
TPF		2194		2141				1538			580
NET		290		261				150			77
FDT											
4. Interim Contractor Support		450		787				387			168
5. Engineering Support		712		818				432			319
6. Air Defense Tactical Operations Center		4800		36715				13080			8262
TOTAL		42880									
*QUANTITIES ARE BASED ON ORGANIZATIONAL UNITS THAT VARY IN SIZE BASED ON SPECIFIC MISSION AND EQUIPMENT REQUIREMENTS. QUANTITIES REPORTED REFLECT A COMPOSITE NUMBER OF SPECIFIC REQUIREMENTS (HEAVY DIV, LIGHT DIV, ARMORED CAVALRY REGIMENT, CORPS MISSILE BATTALION, TRAINING BASE, AND SPECIAL DIV).											

*QUANTITIES ARE BASED ON ORGANIZATIONAL UNITS THAT VARY IN SIZE BASED ON SPECIFIC MISSION AND EQUIPMENT REQUIREMENTS. QUANTITIES REPORTED REFLECT A COMPOSITE NUMBER OF SPECIFIC REQUIREMENTS (HEAVY DIV, LIGHT DIV, ARMORED CAVALRY REGIMENT, CORPS MISSILE BATTALION, TRAINING BASE, AND SPECIAL DIV).

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE
B. APPROPRIATION / BUDGET ACTIVITY										February 1997
C. P-1 ITEM NOMENCLATURE										
FAAD C2 (AD5050)										
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY Each	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A
HARDWARE										
FY 1996	GTE, TAUNTON, MA MILTOPE, MONTGOMERY, AL	C/OPTION CECOM C/OPTION CECOM		Dec-95 Dec-95	Apr-96 Apr-96	2 2	6092	YES		
FY 1997	GTE, TAUNTON, MA	C/OPTION CECOM		Dec-96	Apr-97	4	7456	YES		
FY 1998	GTE, TAUNTON, MA	C/OPTION CECOM		Dec-97	Apr-98	3	2941	YES		
FY 1999	GTE, TAUNTON, MA	C/OPTION CECOM		Dec-98	Apr-99	1	5893	YES		

REMARKS: The above equipment is Commercial Off The Shelf (COTS) being procured on the CHS contract.

BUDGET ITEM JUSTIFICATION SHEET										DATE	February 1997
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE								FORWARD ENTRY DEVICE (FED) (BZ9851)	
OTHER PROCUREMENT / Communications and Electronics Equipment		FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		
QUANTITY											
COST (in millions)	0.0		12.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	
DESCRIPTION:											
<p>The Forward Entry Device (FED) program provides the hardware platform to support DoD mandated interoperability/Army digitization requirements (to include implementation of the MIL STD 188-220 protocol and Variable Message Format) to support the new functional user requirements under the next software release and C4I technical architecture requirements. FED is used in the Heavy Divisions by the Forward Observer (FO), Field Artillery (FA) Battery Commanders and Fire Support Team (FIST) personnel.</p> <p>The FED consists of FO Command and Control (FOCC) and Meteorological Survey (MET) software which enables the user to plan, control, and execute fire support operations at maneuver platoon, company battalion and brigade levels. The FOCC devices are employed as the initial data entry point for information inputs into computer centers from remote locations. The second software version is the MET software, used to support meteorological and survey computations and command and control messages.</p>											
JUSTIFICATION:											
<p>FY98 funding continues implementation of hardware platform upgrades required to comply with the new fire support software release (Package 11) and to interoperate with other fire support systems.</p>											

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				B. WEAPON FORWARD ENTRY DEVICE (FED) (BZ9851)				C. MANUFACTURER NAME GTE Corp.				D. DATE February 1997			
OPA Cost Elements	ID CD	FY 96		FY 97		FY 98		FY 99		FY 99		FY 99		FY 99		FY 99	
		TotalCost \$000	Qty Each	TotalCost \$000	Qty Each	TotalCost \$000	Qty Each	TotalCost \$000	Qty Each	TotalCost \$000	Qty Each	TotalCost \$000	Qty Each	TotalCost \$000	Qty Each	TotalCost \$000	Qty Each
1. Hardware	A			10815	515	21	20	21	21								
2. Program Management Administration				220						420							
3. Engineering Support				120						220							
4. Contract Support				125						120							
5. Fielding				751						125							
TOTAL				12031						1497							
										2382							

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE
B. APPROPRIATION / BUDGET ACTIVITY										February 1997
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment										
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST \$	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A
1. Hardware										
FY 97 FED	GTE Tauton, MA	C/OPTION	CECOM	Mar-97	Aug-97	515	21000	Yes		
FY 98 FED	GTE Tauton, MA	C/OPTION	CECOM	Mar-98	Aug-98	20	21000	Yes		
REMARKS: The FED hardware is commercial level off-the-shelf hardware being procured on the Common Hardware/Software (CHS) contract.										

BUDGET ITEM JUSTIFICATION SHEET										DATE	February 1997
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE									
OTHER PROCUREMENT / Communications and Electronics Equipment		LIFE CYCLE SOFTWARE SUPPORT (LCSS) (BD3955)									
		FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		
QUANTITY		0	0	0	0	0	0	0	0		
COST (in millions)		2.0	2.0	2.0	1.2	0.9	1.8	1.9	1.9		

Description: Life Cycle Software Engineering (LSCE) support, by the Software Engineering Directorate (SED), provides the essential services needed to maintain CECOM managed fielded Battlefield Automated Systems (BAS) in a state of operational readiness. The Mobile Subscriber Equipment, Maneuver Control Systems, Firefinder, TRITAC Switches, and Intelligence/Electronic Warfare Systems are some of the 221 BASs supported by the SED that directly depend on LCSE support to maintain a posture of mission critical readiness. Adequate funding for LCSE support is essential for the acquisition, operation, maintenance and sustainment of multi-host computer systems, peripherals, interfaces, support equipment, test beds, components, and software used to provide the necessary services and support to maintain BASs in a state of operational readiness.

Justification: Policy for PPSS requires that system managers provide initial host capabilities for new systems, and that the Life Cycle Software Engineering Centers (LCSEC) provide upgrades and replacement of obsolete equipment. Significant portions of host and network equipment are five years old or older and/or reaching obsolescence. There is the requirement to respond to emergency requests from the field for Software Engineering support in order to maintain operational readiness of deployed BASs. With host computers, peripherals (e.g., memory storage devices, terminals, keyboards, and printers, media and replication equipment) having a life-span of approximately five years and the SED performing its mission over a continuous period of time beyond five years, equipment must be replaced and/or upgraded regularly to deal with obsolescence and to take advantage of the continual improvements in technology that are indigenous to high-technology based weapon systems and their software support environments, in order to meet the ever increasing mission requirements imposed by the field. Funding for this task is essential to provide and maintain the software support environments and LCSE support required to maintain fielded BASs in a state of operational readiness, worldwide, to support the Soldier in the field.

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				B. WEAPON LIFE CYCLE SOFTWARE SUPPORT (LCSS) (BD3955)				C. MANUFACTURER NAME		D. DATE February 1997	
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99					
ID	CD	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
S/W Development Tools		200	1	200									
S/W Development Environment Upgrade		181	1	181									
Host System Upgrades		173	1	173									
Vaxcluster HSC 50 Upgrade		430	1	430									
Vax LAN Ultrix Upgrade		383	1	383									
ETHERNET Upgrade		256	1	256									
Office Environment Upgrades		131	1	131									
IBM Peripheral Equipment Buffer Unit		260	1	260									
Svs Upgrade for Tact. Switches					2027	6	338						
Svs Upgrade for Elec. Warfare Env. Simul.								1978	4	495			
Svs Development Upgrade for Fire Support					2027			1978			1224	4	306
TOTAL		2014											

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE	February 1997
B. APPROPRIATION / BUDGET ACTIVITY											
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment											
C. P-1 ITEM NOMENCLATURE											
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY Each	UNIT COST \$000	SPECS AVAIL NOW	SPECS REV REQ'D	IF YES W/A	
S/W Development Tools FY 96	Nations/ NJ	C/TM	CECOM	Apr-96	Jun-96	1	200	yes	no		
S/W Development Environment Upgrade FY 96	GTE/ Needham, MA	C/TM	CECOM	Apr-96	Jun-96	1	181	yes	no		
Host System Upgrades FY 96	Telos/ Herndon, VA	C/FP	CECOM	Apr-96	Jun-96	1	173	yes	no		
Vaxcluster HSC 50 Upgrade FY 96	Digital/ Piscataway, NJ	C/FP	CECOM	Apr-96	Jun-96	1	430	yes	no		
Vax LAN Ultrix Upgrade FY 96	GTE/ Needham, MA	C/TM	CECOM	May-96	Jun-96	1	383	yes	no		
ETHERNET Upgrade FY 96	LCU H/M/ Ft. Monmouth, NJ	C/FP	CECOM	Apr-96	Jun-96	1	256	yes	no		
Office Environment Upgrades FY 96	TVS/ Ft. Monmouth, NJ	C/TM	CECOM	Jun-96	Aug-96	1	131	yes	no		
IBM Peripheral Equipment Buffer Unit FY 96	GTE/ Needham, MA	C/TM	CECOM	May-96	Jun-96	1	260	yes	no		
Sys Upgrade for Tact. Switches FY 97	TBD	C/TM	CECOM	Mar-97	Apr-97	6	338	yes	no		
Sys Upgrade for Elec. Warfare Env. Simul. FY 98	TBD	C/TM	CECOM	Feb-98	Apr-98	4	495	yes	no		
REMARKS:											

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE	
B. APPROPRIATION / BUDGET ACTIVITY										February 1997	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment					C. P-1 ITEM NOMENCLATURE					LIFE CYCLE SOFTWARE SUPPORT (LCSS) (BD3955)	
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY Each	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A	
Sys Development Upgrade for Fire Support FY 99	TBD	C/TM	CECOM	Feb-99	Apr-99	4	306	yes	no		
REMARKS:											

BUDGET ITEM JUSTIFICATION SHEET							DATE	February 1997	
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE							
OTHER PROCUREMENT / Communications and Electronics Equipment		LOGTECH (BZ8889)							
QUANTITY		FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
COST (in millions)	5.0	8.0	3.4	3.3	4.5	4.6	4.7		
<p>DESCRIPTION: LOGTECH or Automatic Identification Technology (AIT) consists of various radio frequency barcode scanning devices, barcode label and page printers, and various data carrier devices with their associated readers and writers. These data carrier devices include optical laser cards, integrated circuit chip cards (smart cards) and PC memory cards. AIT devices are used with automated logistics systems to facilitate and expedite the functions of receiving, distribution, storage, inventory management and property accountability. AIT is used throughout the Army at the wholesale (AMC) and retail (STAMIS) supply levels and in automated maintenance, personnel and transportation systems, where rapid and accurate source data collection is required. The AIT contract establishes a baseline of AIT devices for use throughout DoD and ensures standardization and interoperability of this equipment across the Services.</p> <p>JUSTIFICATION: FY98/99 fieldings support Depot Systems Command, Major Commands and Army STAMIS with Radio Frequency Portable Data Collection Device Networks, printers and Automated Manifest System. Funds will continue these initiatives essential to satisfy logistics requirements in the tactical and non-tactical arenas.</p> <p>(IDENTIFICATION CODE A)</p>									

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				B. WEAPON LOGTECH (BZ8889)		C. MANUFACTURER NAME		D. DATE February 1997			
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99					
ID	CD	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	UnitCost \$000		
AIT Peripherals*	A	1893	*VAR	VAR	4767	*VAR	VAR	1114	*VAR	VAR	1199	*VAR	VAR
RFPDCD Network**	A	2948	67	44	3036	69	44	2244	51	44	2112	48	44
Automated Manifest System	A	192	48	4	192	48	4						
TOTAL		5033			7995			3358			3311		
* AIT Peripherals unit cost varies by item **Radio Frequency Portable Data Collection Device (RFPDCD)													

* AIT Peripherals unit cost varies by item
 **Radio Frequency Portable Data Collection
 Device (RFPDCD)

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										
B. APPROPRIATION / BUDGET ACTIVITY					DATE		February 1997			
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment					LOGTECH (B28889)					
C. P-1 ITEM NOMENCLATURE										
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQD	IF YES W/A
AIT Peripherals										
FY 96	INTERMEC	OPTION	ISSAA	Mar-96	Jun-96	VAR	VAR	YES		
FY 97	INTERMEC	OPTION	CAC-WOO	Dec-96	Mar-97	VAR	VAR	YES		
	INTERMEC	OPTION	CAC-WOO	Feb-97	Apr-97	VAR	VAR	YES		
	INTERMEC	OPTION	CAC-WOO	May-97	Jul-97	VAR	VAR	YES		
FY 98	INTERMEC	OPTION	CAC-WOO	Dec-97	Mar-98	VAR	VAR	YES		
	INTERMEC	OPTION	CAC-WOO	Mar-98	Jun-98	VAR	VAR	YES		
FY 99	INTERMEC	OPTION	CAC-WOO	Dec-98	Mar-99	VAR	VAR	YES		
	INTERMEC	OPTION	CAC-WOO	Mar-99	Jun-99	VAR	VAR	YES		
RFPDCD Network										
FY 96	INTERMEC	OPTION	ISSAA	Jan-96	May-96	67	44	YES		
FY 97	INTERMEC	OPTION	CAC-WOO	Dec-96	Mar-97	69	44	YES		
FY 98	INTERMEC	OPTION	CAC-WOO	Dec-97	Mar-98	26	44	YES		
	INTERMEC	OPTION	CAC-WOO	Mar-98	Jun-98	25	44	YES		
FY 99	INTERMEC	OPTION	CAC-WOO	Dec-98	Mar-99	24	44	YES		
	INTERMEC	OPTION	CAC-WOO	Mar-99	Jun-99	24	44	YES		
Automated Manifest System										
FY 96	INTERMEC	OPTION	ISSAA	Jan-96	Apr-96	48	4	YES		
FY 97	INTERMEC	OPTION	CAC-WOO	Dec-96	Mar-97	48	4	YES		
REMARKS: AIT Peripherals unit cost varies by item configuration										
CAC-WOO - CECOM Acquisition Center - Washington Operations Office										

BUDGET ITEM JUSTIFICATION SHEET										DATE	February 1997
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE								TC AIMS II (BZ8900)	
OTHER PROCUREMENT / Communications and Electronics Equipment		FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		
QUANTITY											
COST (in millions)	0.0	0.0	2.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5	
<p>DESCRIPTION: Transportation Coordinator-Automated Information Movements System II (TC AIMS II) will consolidate management of the unit/installation-level transportation functions of Unit Movement, Load Planning and Installation Transportation Office/Traffic Management Office (ITO/TMO) operations into a single automated capability for use throughout DoD. Reducing systems redundancy, functionalities of unit movement, load planning and ITO/TMO transportation AISs will be migrated into its applications. TC AIMS II will provide a common hardware suite running software applications designed for easy data retrieval, data exchange and connectivity to relevant external sources. Open systems architecture is emphasized throughout for standardization and interoperability and for ease of system growth and maintenance. The September 1995 PDM II provided the Army with FY97 funding which is shown under BD3000, Logistics Automation (BE4166). The Principal Deputy Under Secretary of Defense designated the Army as lead service for TC AIMS II and directed realignment of legacy system funding in the Army budget in FY98 and out.</p> <p>JUSTIFICATION: TC-AIMS II hardware is a variably configured client-server system consisting of HP 9000 servers, pentium based desktop workstations and pentium based laptop computers for unit deployment and remote site operations. FY97 funding supports upgrades to 181 Air Force sites and implementation of 18 sites in the other services (to be determined by site readiness and service priority). This includes beta test sites for TC-AIMS II to be implemented in early FY97. FY98 funding completes implementation of identified TC-AIMS II sites. FY99 continues this effort.</p> <p>(IDENTIFICATION CODE A)</p>											

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				B. WEAPON TC AIMS II (BZ8900)				C. MANUFACTURER NAME See 5A		D. DATE February 1997	
OPA Cost Elements	ID CD	FY 96			FY 97			FY 98			FY 99		
		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
Hardware consisting of: HP 9000 Server, Pentium Based Desktop Workstation and Pentium Based LAPTOP	A												
TOTAL													
* Configurations vary by site													

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE
B. APPROPRIATION / BUDGET ACTIVITY										February 1997
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment										
C. P-1 ITEM NOMENCLATURE										
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY Each	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A
Hardware consisting of HP 9000 Server, Pentium Based Desktop Workstation and Pentium Based LAPTOP										
FY98	TBS	C/FP	CAC-WOO	Dec-97	Mar-98	VAR *	VAR *	YES		
FY99	TBS	C/FP	CAC-WOO	Jan-99	Apr-99	VAR *	VAR *	YES		
* Configurations vary by site										
REMARKS: CAC-WOO - CECOM ACQUISITION CENTER - WASHINGTON OPERATIONS OFFICE										

BUDGET ITEM JUSTIFICATION SHEET										DATE
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE								
OTHER PROCUREMENT / Communications and Electronics Equipment		ISYSCON EQUIPMENT (BX0007)								
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		
QUANTITY	0	0	0	0	0	0	0	0		
COST (in millions)	12.8	9.8	10.6	10.5	4.2	0.0	0.0	0.0		
<p>DESCRIPTION:</p> <p>Integrated System Control (ISYSCON) will provide an automated method for managing the tactical communication network, establish an interface with each technical control facility and other non-signal managements in the ATCCS architecture, and enable automation assisted configuration and management of a dynamic battlefield. The major functions of ISYSCON are network planning, signal command and control, spectrum management, wide area network management and COMSEC management. ISYSCON is being extended to manage the tactical internet at brigade and battalion to support Task Force XXI experiments planned for FY 97 and FY 98. This ISYSCON presence will be known as the Automated Network Manager (ANM). The ISYSCON program serves as a baseline foundation to support the future network management initiatives tied to or part of the evolution to the Digitized Division and Warfighter Information Network (WIN) architecture.</p> <p>JUSTIFICATION:</p> <p>The ISYSCON program provides the network management for WIN Terrestrial Transport (WIN T/T) and solves significant shortcomings in today's network management. ISYSCON will serve as the foundation on which to build the WIN T/T network and will serve as the Army baseline for joint communications management.</p> <p>ISYSCON production will utilize the Echelons Corps and Below (ECB) and downsize Echelons Above Corps (EAC) hardware as a building block baseline towards fulfilling the objective design. FY 98 and FY 99 funds will be used in support of ECB and EAC ISYSCON configurations and will consist of new government/contractor off-the-shelf hardware and software. The realignment of funds from hardware to software in FY 98 is due to Army direction to revise the current ISYSCON strategy in order to better support the objective WIN future architecture. Seamless network management from theater to the objective digitized division is a necessary requirement for information dominance. Reference MEMO from DCSOPS, DAMO-FDC, Subject: Warfighter Information Network (WIN) Network Management/Information Dominance requirements dtd 10 Jan 97.</p> <p>(IDENT CODE B)</p>										

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				B. WEAPON ISYSCON EQUIPMENT (BX0007)				C. MANUFACTURER NAME See P-5A		D. DATE February 1997			
OPA		FY 96				FY 97				FY 98				FY 99	
Cost Elements		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000		
1. Govt Furnished Equipment															
a. Delta hardware (ECB)			4	185							4176	7	597		
b. Delta hardware (EAC)											1120	2	560		
2. Engineering Support															
a. Contractor		1600			300						343				
b. Government		828			472						628				
3. Phase 1 Production Software EAC					6000						2557				
4. Phase 1 Production Software ECB		9600			2249						715				
5. Battlefield Spectrum Management(BSM)											1000				
6. Test/Training					800										
FY 96-98 reflects costs associated with the completion of 4 EMD prototypes, configured for Theatre Signal Command Army (TSC-A) Signal Bde and Division Signal Bn, which include the ISYSCON s/w functionality.															
FY 99 reflects costs to procure delta equip for a combination of (V)1 & (V)2 configurations and non-recurring engineering															
TOTAL		12766			9821			10645			10539				

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										
B. APPROPRIATION / BUDGET ACTIVITY					DATE		February 1997			
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment					C. P-1 ITEM NOMENCLATURE					
ISYSCON EQUIPMENT (BX0007)										
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A
1. Gov't Furnished Equipment Common Hardware/Software FY 1996 (EAC) Hardware	GTE Taunton, MA	FP/OPT	CECOM	May-96	Oct-96	4	185	YES		
FY 1997 (EAC) Software	GTE Raleigh, NC	FP/OPT	CECOM	Mar-97	Oct-97	N/A		YES		
FY 1997 (ECB) Software	GTE Raleigh, NC	FP/OPT	CECOM	Mar-97	Oct-97	N/A		YES		
FY 1998 (EAC) Software	GTE Raleigh, NC	FP/OPT	CECOM	Nov-97	Sep-98	N/A		YES		
FY 1999 (ECB) Hardware	GTE Taunton, MA	FP/OPT	CECOM	Nov-98	Jul-99	7	597	YES		
FY 1999 (EAC) Hardware	GTE Taunton, MA	FP/OPT	CECOM	Nov-98	May-99	2	560	YES		
FY 1999 (EAC) Software	GTE, Raleigh, NC	FP/OPT	CECOM	Nov-98	Sep-99					
FY 1999 (ECB) Software	GTE, Raleigh, NC	FP/OPT	CECOM	Mar-99	Oct-99	N/A		YES		
2. Battlefield Spectrum Management (BSM)										
FY 1998	IITRI Annapolis, MD	FP/OPT	CECOM	Oct-97	Sep-98	N/A		YES		
FY 1999	IITRI Annapolis, MD	FP/OPT	CECOM	Oct-98	Sep-99	N/A		YES		
REMARKS:										

BUDGET ITEM JUSTIFICATION SHEET										DATE	February 1997
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE									
OTHER PROCUREMENT / Communications and Electronics Equipment		MANEUVER CONTROL SYSTEM (MCS) (BA9320)									
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003			
QUANTITY	123	143	145	157	381	402	0	0			
COST (in millions)	18.6	19.1	15.7	18.3	41.4	54.8	0.7	0.7			
<p>DESCRIPTION:</p> <p>The Maneuver Control System (MCS) is an automated tactical Command, Control and Communications (C3) system which provides a network of computer terminals to process combat information for battle staffs. It provides automated assistance in the collection, storage, review and display of information to support the commander's decision process. Both text and map graphics are provided to the user. It enables operation staffs, G3/S3, to process and distribute estimates, plans, orders and reports. The system is designed to operate with existing and planned communications networks. This is an evolutionary development including preplanned system improvements to insure increasing Command and Control (C2) capabilities and infusion of current technology while, in the interim, providing an essential core capability.</p> <p>JUSTIFICATION:</p> <p>MCS is the key to the commander's situational awareness and common picture of the battlefield. It will incorporate all fire support, intelligence, air defense, logistics, and maneuver information concerning friendly and enemy forces, and then allow the commander to make decisions, issue orders, allocate resources, and fight the battle.</p> <p>The MCS Common Hardware/Software (CHS) equipment is needed to equip the active force with an automated C2 capability. This program is an integral part of the Army Tactical Command and Control System (ATCCS) and is critical to the successful operation of the overall system. This generation of computers will incorporate advancements in technology and achieve Life Cycle Cost savings due to commonality of support.</p> <p>FY98 funding of \$15.7M will be required to purchase equipment for the remainder of the training base.</p> <p>FY99 funding of \$18.3M will be required to purchase equipment for HQ XVIII Corps and the 82nd Airborne Division.</p>											

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										
B. APPROPRIATION / BUDGET ACTIVITY					DATE		February 1997			
OTHER PROCUREMENT / Communications and Electronics Equipment										
C. P-1 ITEM NOMENCLATURE										
MANEUVER CONTROL SYSTEM (MCS) (BA9320)										
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A
AN/TYQ-45 High Capacity Unit (HCU) FY96 (V2) FY97 (V1) FY98 (V1) FY99 (V2)	GTE, TAUNTON, MA	C/FP/OPT	CECOM	Oct-95	Mar-96	123	69	Yes		
	GTE, TAUNTON, MA	C/FP/OPT	CECOM	Mar-97	Aug-97	150	50	Yes		
	GTE, TAUNTON, MA	C/FP/OPT	CECOM	Jan-98	Jun-98	138	54	Yes		
	GTE, TAUNTON, MA	C/FP/OPT	CECOM	Jan-99	Jun-99	151	68	Yes		
Large Screen Display (LSD) FY99	GTE, TAUNTON, MA	C/FP/OPT	CECOM	Jan-99	Jun-99	49	15	Yes Yes Yes		
Tactical Scanner (TACSCAN) FY99	GTE, TAUNTON, MA	C/FP/OPT	CECOM	Jan-99	Jun-99	34	11	Yes		
Large Scale Plotter (LSP) FY99	GTE, TAUNTON, MA	C/FP/OPT	CECOM	Jan-99	Jun-99	34	5	Yes Yes Yes		
REMARKS: The above hardware is commercial off-the-shelf and is procured on the CHS-2 contract. The Award Date reflects when PM OPTADS will exercise an option to place an order on an already existing contract.										

CODE "B" ITEM DESCRIPTION		DATE	REPORT CONTROL SYMBOL
APPROPRIATION	ACTIVITY	February 1997	DD-COMP(AR)1092
OTHER PROCUREMENT	Communications and Electronics Equipment	P-1 ITEM NOMENCLATURE	
MANEUVER CONTROL SYSTEM (MCS) (BA9320)			
1. CURRENT DEVELOPMENT AND TEST STATUS			
A. SYSTEM SEGMENT ACCEPTANCE TEST		SCHEDULE DATE	
B. V 12.01 IOT&E	ACTUAL	CURRENT (1)	LAST RPTD (2)
C. ASARC	PLANNED	Feb-96	Feb-96
D. MCS III DAB	PLANNED	TBD	Oct-96
E. FUE/IOC	PLANNED	TBD	Mar-97
	PLANNED	TBD	Mar-97
	PLANNED	TBD	Mar-98
2. ESTIMATED DATE OF APPROVAL FOR SERVICE USE		REASON FOR DELAY* (3)	
3. EQUIPMENT ITEM(S) TO BE REPLACED		Replaced with LUT. IOT&E to be rescheduled.	
MCS MILESTONE III DAB - TBD		Dependent on IOT&E.	
NDI (AN/UYQ-43 (V1) AND (V2))		Dependent on IOT&E.	
4. EXTENT OF IMPROVEMENT OVER ITEM(S) OF EQUIPMENT TO BE REPLACED		Dependent on MCS Milestone III DAB.	
PART OF ATCCS COMMON HARDWARE PROGRAM, THE NEXT GENERATION OF COMPUTERS WILL INCORPORATE ADVANCEMENTS IN TECHNOLOGY AND INCLUDE SAVINGS IN LIFE CYCLE COST DUE TO COMMONALITY OF SUPPORT.			
5. DEVELOPMENT CONTRACT INFORMATION			
CONTRACTOR NAME (1)	PLANT LOCATION (2)	THROUGH 1996 (4)	1997 (5)
LORAL C2 SYSTEM	COLORADO SPRINGS, CO	30.8	1998 (6)
MILTOPE CORPORATION	MONTGOMERY, AL	7.9	1999 (7)
GTE	TAUNTON, MA	1.2	BEYOND BYs (8)
LOCKHEED MARTIN	TINTON FALLS, NJ	1.0	
CSC/MTRE/TELOS	EATONTOWN, NJ	45.5	
OTHER	INTERNAL AND OTHER CONTRACTS	228.4	
TOTAL RDT&E FUNDING		314.8	
6. REMARKS			

* Reference entries on attachment to P-19 if additional space is required to adequately explain delay from previous date.

BUDGET ITEM JUSTIFICATION SHEET										DATE	February 1997
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE									
OTHER PROCUREMENT / Communications and Electronics Equipment		STAMIS TACTICAL COMPUTERS (STACOMP) (W000800)									
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003			
QUANTITY											
COST (in millions)	30.8	40.0	36.1	29.4	30.7	30.4	35.5	37.6			
<p>DESCRIPTION: STAMIS Tactical Computers (STACOMP) are a group of Commercial-off-the-Shelf (COTS) computer systems. STACOMP systems support the Standard Army Management Information System (STAMIS) tactical computer requirements for the US Army. STACOMP systems are transportable and user friendly. These systems are used by soldiers on the battlefield to support CSS missions at all levels. STACOMP systems support the following STAMIS: Standard Army Retail Supply System (SARSS), Standard Army Ammunition System (SAAS), Standard Army Maintenance System (SAMS), Standard Property Book System-Redesign (SPBS-R), the Department of the Army Movements Management System-Redesign (DAMMS-R), the Unit Level Logistics System (ULLS) and Standard Installation Division Personnel System (SIDPERS).</p> <p>JUSTIFICATION: FY98/99 funds procure COTS microcomputers for SARSS, SAAS, SAMS, DAMMS-R, ULLS, SIDPERS and STAMIS support systems.</p> <p>(IDENTIFICATION CODE A)</p>											

OPA Cost Analysis			A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			B. WEAPON STAMIS TACTICAL COMPUTERS (STACOMP) (W008000)			C. MANUFACTURER NAME			D. DATE February 1997		
OPA Cost Elements			FY 96			FY 97			FY 98			FY 99		
ID	CD		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
COTS Microcomputers* for:														
DAMMS - R			286	*VAR	VAR	2026	*VAR	VAR	745	*VAR	VAR			
SAAS			2257	*VAR	VAR	7614	*VAR	VAR	206	*VAR	VAR	2166	*VAR	VAR
SAMS			2089	*VAR	VAR	7015	*VAR	VAR	6467	*VAR	VAR	3219	*VAR	VAR
SARSS			7287	*VAR	VAR	5535	*VAR	VAR	1990	*VAR	VAR	4207	*VAR	VAR
SPBS-R			1508	*VAR	VAR									
ULLS			7268	*VAR	VAR	8725	*VAR	VAR	11638	*VAR	VAR	7666	*VAR	VAR
SIDPERS			5532	*VAR	VAR	5987	*VAR	VAR	14861	*VAR	VAR	11973	*VAR	VAR
STAMIS Support			4606	*VAR	VAR	3064	*VAR	VAR	217	*VAR	VAR	182	*VAR	VAR
TOTAL			30833			39966			36124			29413		
* Configurations vary by user requirements and site														

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE
B. APPROPRIATION / BUDGET ACTIVITY										February 1997
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment										
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQD	IF YES W/A
C. P-1 ITEM NOMENCLATURE										
STAMIS TACTICAL COMPUTERS (STACOMP) (W008000)										
COTS Microcomputers for:										
DAMMS - R										
FY 96	VAR	C/FP	VAR	Apr-96	May-96	VAR	VAR	YES		
FY 97	VAR	C/FP	VAR	Mar-97	May-97	VAR	VAR	YES		
FY 98	VAR	C/FP	VAR	Jan-98	Apr-98	VAR	VAR	YES		
SAAS										
FY 96	VAR	C/FP	VAR	Jan-96	Mar-96	VAR	VAR	YES		
FY 97	VAR	C/FP	VAR	Nov-96	Jan-97	VAR	VAR	YES		
				Apr-97	Jun-97					
				May-97	Jul-97					
				Jun-97	Aug-97					
FY 98	VAR	C/FP	VAR	Dec-97	Mar-98	VAR	VAR	YES		
FY 99	VAR	C/FP	VAR	Dec-98	Mar-99	VAR	VAR	YES		
SAMS										
FY 96	VAR	C/FP	VAR	Dec-95	Feb-96	VAR	VAR	YES		
FY 97	VAR	C/FP	VAR	Nov-96	Jan-97	VAR	VAR	YES		
				Apr-97	Jun-97					
				Jun-97	Aug-97					
FY 98	VAR	C/FP	VAR	Dec-97	Mar-98	VAR	VAR	YES		
FY 99	VAR	C/FP	VAR	Dec-98	Mar-99	VAR	VAR	YES		

REMARKS: 1) Configurations (quantity and unit cost) vary by user requirement

2) Standard Requirements Type Contracts will be used to procure these COTS microcomputers such as: STAMIS Computer Contract (SCC), Supermini, PC-1

3) Contractors: Sysorex Information Systems, Inc., Fairfax, VA; Planning Research Corp. (PRC), McLean, VA; Government Technology Services, Inc. (GTSI), Chantilly, VA; Zenith Data Systems (ZDS), Herndon, VA

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE	February 1997
B. APPROPRIATION / BUDGET ACTIVITY											
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment											
C. P-1 ITEM NOMENCLATURE											
STAMIS TACTICAL COMPUTERS (STACOMP) (W00800)											
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A	
SARSS											
FY 96	VAR	C/FP	VAR	Dec-95	Feb-96	VAR	VAR	YES			
FY 97	VAR	C/FP	VAR	Dec-96	Feb-97	VAR	VAR	YES			
				Apr-97	Jun-97						
FY 98	VAR	C/FP	VAR	Jun-97	Aug-97	VAR	VAR	YES			
FY 99	VAR	C/FP	VAR	Dec-97	Mar-98	VAR	VAR	YES			
				Dec-98	Mar-99	VAR	VAR	YES			
SPBS-R											
FY 96	VAR	C/FP	VAR	Dec-95	Mar-96	VAR	VAR	YES			
ULLS											
FY 96	VAR	C/FP	VAR	Dec-95	Feb-96	VAR	VAR	YES			
FY 97	VAR	C/FP	VAR	Nov-96	Jan-97	VAR	VAR	YES			
				Mar-97	May-97						
FY 98	VAR	C/FP	VAR	Jun-97	Aug-97	VAR	VAR	YES			
FY 99	VAR	C/FP	VAR	Dec-97	Mar-98	VAR	VAR	YES			
				Dec-98	Mar-99	VAR	VAR	YES			
SIDPERS											
FY 96	VAR	C/FP	VAR	Apr-96	Aug-96	VAR	VAR	YES			
	VAR	C/FP	VAR	May-96	Jun-96	VAR	VAR	YES			
	VAR	C/FP	VAR	Jul-96	Dec-96	VAR	VAR	YES			
FY 97	VAR	C/FP	VAR	Jan-97	Apr-97	VAR	VAR	YES			
	VAR	C/FP	VAR	Jun-97	Sep-97	VAR	VAR	YES			
REMARKS:											
1) Configurations (quantity and unit cost) vary by user requirement											
2) Standard Requirements Type Contracts will be used to procure these COTS microcomputers such as: STAMIS Computer Contract (SCC), Supermini, PC-1											
3) Contractors: Sysorex Information Systems, Inc., Fairfax, VA; Planning Research Corp. (PRC), McLean, VA; Government Technology Services, Inc. (GTSI), Chantilly, VA; Zenith Data Systems (ZDS), Herndon, VA											

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE
B. APPROPRIATION / BUDGET ACTIVITY										February 1997
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment										
C. P-1 ITEM NOMENCLATURE										
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQD	IF YES W/A
SIDPERS (Cont.)										
FY 98	VAR	C/FP	VAR	Dec-97	Mar-98	VAR	VAR	YES		
	VAR	C/FP	VAR	Mar-98	Jun-98	VAR	VAR	YES		
	VAR	C/FP	VAR	Jun-98	Sep-98	VAR	VAR	YES		
	VAR	C/FP	VAR	Aug-98	Nov-98	VAR	VAR	YES		
FY 99	VAR	C/FP	VAR	Dec-98	Mar-99	VAR	VAR	YES		
	VAR	C/FP	VAR	Mar-99	Jun-99	VAR	VAR	YES		
	VAR	C/FP	VAR	Jun-99	Sep-99	VAR	VAR	YES		
	VAR	C/FP	VAR	Aug-99	Nov-99	VAR	VAR	YES		
STAMIS Support										
FY 96	VAR	C/FP	VAR	Nov-95	Feb-96	VAR	VAR	YES		
	VAR	C/FP	VAR	Apr-96	Jul-96	VAR	VAR	YES		
FY 97	VAR	C/FP	VAR	Feb-97	May-97	VAR	VAR	YES		
FY 98	VAR	C/FP	VAR	Mar-98	Jun-98	VAR	VAR	YES		
FY 99	VAR	C/FP	VAR	Mar-99	Jun-99	VAR	VAR	YES		
REMARKS:										
1) Configurations (quantity and unit cost) vary by user requirement										
2) Standard Requirements Type Contracts will be used to procure these COTS microcomputers such as: STAMIS Computer Contract (SCC), Supermini, PC-1										
3) Contractors: Sysorex Information Systems, Inc., Fairfax, VA; Planning Research Corp. (PRC), McLean, VA; Government Technology Services, Inc. (GTSI), Chantilly, VA; Zenith Data Systems (ZDS), Herdon, VA										

BUDGET ITEM JUSTIFICATION SHEET										DATE
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE								February 1997
OTHER PROCUREMENT / Communications and Electronics Equipment		STANDARD INTEGRATED CMD POST SYSTEM (BZ9962)								
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		
QUANTITY	0	0	0	0	0	0	0	0	0	
COST (in millions)	28.5	30.0	26.6	22.8	28.3	32.7	9.6	10.1		
<p>DESCRIPTION: This program includes the procurement of five command post variants, each designed to accommodate the various Battlefield Functional Areas of the Army Battle Command System (ABCS). These include the Maneuver Control System, the Advanced Field Artillery Tactical Data System (AFATDS), the Combat Service Support Control System (CSSCS), the Forward Area Air Defense Command and Control System (FAADC2), the Extended Air Defense Command and Control System (EAD), and the Integrated Meteorological System (IMETS). The five command post variants are:</p> <p>(1) A Tent Command Post (CP) that consists of a lightweight aluminum frame, interchangeable fabric wall sections, fabric roof, floor and liners, work tables, mapboards and light set. The Tent CP can be complexed to other tents and to other SICPS variants via an interface wall.</p> <p>(2) A Rigid Wall Shelter (RWS) CP mounted on the High Mobility Multipurpose Vehicle (HMMWV) Shelter Carrier consisting of an on-board generator, power conversion/distribution system, environmental control unit, collective chemical protection, signal and power pass-through panels antenna mounts, equipment mounts, equipment racks to accommodate two ABCS workstations, operator seats, a vehicle intercom system, and a 10 meter Quick Erect Antenna Mast (QEAM)</p> <p>(3) Conversion Kits for M577 Track Vehicle consisting of equipment racks for two ABCS workstations, power and signal panels, tent interface panel, operator seats, antenna mounts, stowage provisions, an updated Auxiliary Power Unit (APU), an updated vehicular intercom system, a power distribution system, a 10 meter QEAM, and signal/data wiring module. The converted M577 has been designated the M1068 Track CP.</p> <p>(4) Installation Kits for the 5-Ton Expansible Van (E-Van) consisting of racks for up to six ABCS workstations, centralized communications rack, communications patch panel, signal entry panel, antenna mounts, mapboards, a vehicular intercom system, a 10 meter QEAM, updated power distribution wiring, and signal/data wiring.</p> <p>(5) Installation Kits for the Soft-Top HMMWV consisting of equipment racks for up to two ABCS workstations, communications patch panel module, antenna mounts, operator work surface, data patching module, white canvas liners, blackout curtains, and a 10 meter QEAM.</p> <p>JUSTIFICATION: The Standard Integrated Command Post System (SICPS) is essential to the Army's Force XXI efforts. It provides the mobile and environmentally protected platform for the ABCS which is a major part of the Army Chief of Staff's effort to digitize the battlefield. Procurement of each of the above variants is required to support the fielding of the noted ABCS nodes with the Army's Common Hardware/Software Command and Control equipment.</p>										

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		B. WEAPON STANDARD INTEGRATED CMD POST SYSTEM (BZ9962)		C. MANUFACTURER NAME Various		D. DATE February 1997	
OPA Cost Elements	ID CD	FY 96		FY 97		FY 98		FY 99	
		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each
Tent Command Post	A	297	65	5	805	180	4	955	191
PM/Administration					60			70	
Engineering Support					50			85	
Other					940				
SUBTOTAL		297			1855			1110	
Rigid Wall Shelter	A	15297	131	117	9100	55	165	7095	43
PM/Administration		1562			521			387	
Engineering Support		1290			840			550	
Interim Contractor Support		1258			1200				
Other		5845							
SUBTOTAL		25252			11661			8032	
M1068 Conversion Kit	A				6576	54	122	11008	86
PM/Administration		250			700			490	
Engineering Support		500			500			335	
Other									
SUBTOTAL		750			7776			11833	
								13755	105
								520	
								350	
								14625	
									131

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				B. WEAPON STANDARD INTEGRATED CMD POST SYSTEM (BZ9962)				C. MANUFACTURER NAME Various		D. DATE February 1997	
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99					
ID	CD	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
5-Ton E-Van Installation Kit PM/Administration Engineering Support Interim Contactor Support	A	1500	12	125	6480	54	120	1755	13	135	1820	13	140
		300			315			385			405		
					500			525			480		
					315								
SUBTOTAL		1800			7610			2665			2705		
Soft-Top HMMWV Installation Kit PM/Administration Engineering Support Interim Contactor Support	A	190			265			2256	47	48	2250	45	50
		47			500			385			410		
		125			300			270			240		
SUBTOTAL		362			1065			2911			2900		
TOTAL		28461			29967			26551			22807		

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE	February 1997
B. APPROPRIATION / BUDGET ACTIVITY		C. P-1 ITEM NOMENCLATURE									
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		STANDARD INTEGRATED CMD POST SYSTEM (BZ9962)									
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A	
Tent Command Post											
FY 96	Camel Manuf. Lafollette, Tenn.	C/Option	ATCOM	Jun-96	Dec-96	65	5				
FY 97	Camel Manuf. Lafollette, Tenn.	C/Option	ATCOM	Feb-97	Aug-97	180	4				
FY 98	Camel Manuf. Lafollette, Tenn.	C/Option	ATCOM	Feb-98	Aug-98	191	5				
FY 99	Camel Manuf. Lafollette, Tenn.	C/Option	ATCOM	Feb-99	Aug-99	308	5				
Rigid Wall Shelter											
FY 96	Gichner Manuf. Dallastown, Pa.	C/Option	CECOM	Sep-96	Mar-98	131	117				
FY 97	Gichner Manuf. Dallastown, Pa.	C/Option	CECOM	Mar-97	Sep-98	55	165				
FY 98	Gichner Manuf. Dallastown, Pa.	C/Option	CECOM	Mar-98	Sep-99	43	165				
FY 99											
M1068 Conversion Kit											
FY 97	To Be Selected (M1068)	C/Option	TACOM	Sep-97	Jun-98	54	122				
FY 98	To Be Selected (M1068)	C/Option	TACOM	Sep-98	Jun-99	86	128				
FY 99	To Be Selected (M1068)	C/Option	TACOM	Sep-99	Jun-00	105	131				
5-Ton E-Van Installation Kit											
FY 96	Tobyhanna Army Depot	MIPR	CECOM	Sep-96	Jul-97	12	125				
FY 97	Tobyhanna Army Depot	MIPR	CECOM	Feb-97	Dec-97	54	120				
FY 98	Tobyhanna Army Depot	MIPR	CECOM	Feb-98	Dec-98	13	135				
FY 99	Tobyhanna Army Depot	MIPR	CECOM	Feb-99	Dec-99	13	140				
Soft-Top HMMWV Installation Kit											
FY 97											
FY 98	Tobyhanna Army Depot	MIPR	CECOM	Jan-98	Aug-98	47	48				
FY 99	Tobyhanna Army Depot	MIPR	CECOM	Jan-99	Aug-99	45	50				
REMARKS:											

FY 98 / 99 BUDGET PRODUCTION SCHEDULE										P-1 ITEM NOMENCLATURE										STANDARD INTEGRATED CMD POST SYSTEM (BZ9962)										DATE										February 1997																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				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BUDGET ITEM JUSTIFICATION SHEET										DATE
APPROPRIATION / BUDGET ACTIVITY										February 1997
OTHER PROCUREMENT / Communications and Electronics Equipment										
P-1 ITEM NOMENCLATURE										
ARMY TRAINING XXI MODERNIZATION (BE4169)										
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		
QUANTITY	0	0	0	0	0	0	0	0		
COST (in millions)	0.0	0.0	25.2	40.1	23.5	41.7	45.8	15.9		
<p>DESCRIPTION: This budget line implements Army Training XXI, which leverages the exploitation of information technologies in the planning, preparation and execution of collective (Warfighter XXI), individual (Warrior XXI), and new equipment training (Warner XXI). These technologies provide for the electronic linking of the Army's master instructors, expertise and experience to the Total Army anywhere in the world, creating a virtual classroom without walls. Army Training XXI will exploit emerging, state of the art, technologies which are within the commercial main stream to create the necessary conditions for learning to occur. Warfighter XXI is focused primarily on unit training and consists of customized software operating on commercially available hardware to facilitate the planning, integration, execution and review of collective training tasks. Key components of Warfighter include a meta-database of digital libraries, a standard but scaleable after-action review capability, digitally developed structured training packages which focus on specific missions and environments, and Training Aids, Devices, Simulators and Simulations. Warrior XXI is focused on individual training requirements in the institution and units. Classroom XXI makes learning quicker and easier while providing automated tools to monitor individual student progress. Warrior XXI is embodied in the Army's Distance Learning program which harnesses the array of proven distance learning technologies to provide world class training to soldiers regardless of their location. Application of these DL technologies provides for standardized world class training to individuals regardless of their location. Warner XXI is focused on applying distance learning technologies to the new equipment training problem and serves to enrich the warrior thrust.</p> <p>JUSTIFICATION: This initiative is necessary to train and sustain proficiency of soldiers and units. Soldiers are and will be CONUS-based with disbursed smaller units strategically placed worldwide. Today and for the foreseeable future, our units will be required to perform a far larger array of missions than in the past. At the same time reductions in manpower will make it difficult and sometimes , nearly impossible to provide Mobile Training Teams, and New Equipment Training Teams in the numbers and frequency that the Army has done in the past to meet training requirements. Current backlog of over 90K soldiers that require MOS training can be decreased for approximately 20% less than traditional training methods. 47K of those soldiers are not currently programmed for schooling. We can significantly increase level of MOS qualification, hence readiness, with standardized, Total Army courseware delivered through distance technology.</p> <p>With the National Guard redesign of divisions, the training backlog is likely to increase over the outyears, unless ADLP is fully funded. With budgeted level of funding, we expect to reduce resident training requirements by an average 18% for those courses converted to distance learning. Soldiers will spend less time in the training base and more time in units thereby increasing readiness.</p> <p>This initiative provides the up-front hardware investment necessary to make distance learning a reality. Without this investment, schools will be unable to export the expertise and standardization provided by their master instructors, critical courseware already developed and under development must be shelved, soldiers will not be able to receive training where and when needed and the problem of training backlog will be exacerbated.</p>										

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				B. WEAPON ARMY TRAINING XX1 MODERNIZATION (BE4169)				C. MANUFACTURER NAME				D. DATE February 1997			
OPA Cost Elements	ID CD	FY 96				FY 97				FY 98				FY 99			
		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	
Distance Learning																	
Classroom XXI															26160		
Training Accessions															1800		
Training Technology															5005		
															7100		
TOTAL															40065		

BUDGET ITEM JUSTIFICATION SHEET									
APPROPRIATION / BUDGET ACTIVITY				DATE					
OTHER PROCUREMENT / Communications and Electronics Equipment				P-1 ITEM NOMENCLATURE					
				DISTANCE LEARNING					
QUANTITY	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	
	0	0	0	0	0	0	0	0	
COST (in millions)	0.0	0.0	19.3	26.2	8.8	27.1	30.4	4.6	

DESCRIPTION: Distance Learning (DL) is a means of delivering standardized training to Active and Reserve Component soldiers world-wide. This initiative provides the hardware needed for soldiers to train at a remote DL facility closest to them rather than the single TRADOC resident school location. The location and operational implementation of the remote facilities are carefully timed to coincide with the development of multimedia courseware requested by the MACOMs, taking into account the number of soldiers requiring training and their respective locations. Capabilities of each facility will vary depending on site requirements and include conducting training, receiving training, developing training, and storing digitized training materials. Although the facilities will be provided for both AC and RC soldiers, over 60% of these resources will be required to support the RC due to the nature of their dispersal. The funds provide key components associated with these facilities including student and instructor multimedia workstations; servers, network hubs, routers, and gateways; system and network control functions, and associated integration hardware and installation.

JUSTIFICATION: In March 1995, due to increased reliance on the RC, readiness issues, reduced training resources, and some duplication of efforts, OSD (RA) directed the services to develop comprehensive distance learning plans that articulate how each service will use DL technologies to improve readiness and make training available /affordable for the total force. The Army Distance Learning Plan (ADLP) is the only plan currently on the street and the other services are using it as a model to develop their own plans. The Army plan leverages existing and future national communications infrastructure, uses industry standards and is compliant with Army Technical Architecture (ATA) and DOD architecture. These actions insure not only compatibility with the other services but also insure that commercial, state, and other resources can be utilized to achieve the most cost effective solutions in reaching both the AC and RC soldiers. The Army Plan has also been coordinated with the Military Education Coordination Committee Interconnectivity Working Group overseen by the Joint Staff (J-7). There will be 63 classrooms dispersed at 21 sites with 21 ATM gateways. The majority of sites (84) are being provided to TASS NG Battalions. Delivery of equipment to all sites by 3rd quarter FY 98.

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		B. WEAPON		DISTANCE LEARNING		C. MANUFACTURER NAME TBD		D. DATE February 1997	
ID	CD	FY 96		FY 97		FY 98		FY 99		UnitCost	UnitCost
		TotalCost \$000	Qty Each	TotalCost \$000	Qty Each	TotalCost \$000	Qty Each	TotalCost \$000	Qty Each		
OPA Cost Elements											
ATM Gateway (FY98 - 21 ea / FY99 - 61 ea)											
Router Multiplexer											
Distance Learning Classroom (Type A) (FY98 - 57 Classrooms / FY99 - 32)											
Video Teletraining											
Student Workstation											
Instructor Control/Multimedia Workstation											
Video/Data Projection System											
Audio Playback System											
Network Cables,Connectors & Software											
Support Hardware											
Installation											
Distance Learning Classroom (Type B) (FY98 - 6 Classrooms / FY99 - 3 Classrooms)											
Video Teletraining											
Student Workstation											
Instructor Control/Multimedia Workstation											
Video/Data Projection System											
Audio Playback System											
Network Cables,Connectors & Software											
Support Hardware											
Installation											
Technology Support Center (Type A) (FY98 - 21 Centers / FY99 - 2 Centers)											
File Server											
Video Server											
Instructor Prep Workstation											
Bulletin Board Server											
Video Distribution Interface											
Printer											
Network Cables,Connectors & Software											
Support Hardware											
Installation											

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				B. WEAPON		DISTANCE LEARNING		C. MANUFACTURER NAME TBD		D. DATE February 1997	
OPA		FY 96		FY 97		FY 98		FY 99					
ID	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Technology Support Center (Type B) (FY98 - 0 Centers / FY99 - 15 Centers)													
											255	15	17
	File Server										60	15	4
	Video Server										75	15	5
	Instructor Prep Workstation										30	15	2
	Dial-In Modems										285	15	19
	Video Distribution Interface										15	15	1
	Network Hub										30	15	2
	Printer										45	15	3
	Network Cables,Connectors & Software										105	15	7
	Support Hardware										105	15	7
	Installation												
Training Development Suite (FY98 - 21 Suites / FY99 - 2 Suites)													
	Training Development Workstation												
	Network Hub							252	42	6	24	4	6
	Printer							21	21	1	2	2	1
	Support Hardware							42	21	2	4	2	2
	Installation							105	21	5	10	2	5
								105	21	5	10	2	5
Remote Distance Learning Classroom (FY98 - 0 Classrooms / FY99 - 66 Classrooms)													
	Video Teletraining												
	Student Workstation										3960	66	60
	Instructor Control/Multimedia Workstation										1584	528	3
	Video/Data Projection System										1320	66	20
	Audio Playback System										1518	66	23
	File Server										66	66	1
	Video Server										1122	66	17
	Dial-In Modems										264	66	4
	Video Distribution Interface										132	66	2
	Laptop Computer										990	66	15
	Network Cables, Connectors & Software										1056	264	4
	Support Hardware										264	66	4
	Installation										528	66	8
											594	66	9

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				B. WEAPON DISTANCE LEARNING		C. MANUFACTURER NAME TBD		D. DATE February 1997	
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99		TotalCost	UnitCost
ID	CD	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	TotalCost \$000	UnitCost \$000
Management Center (FY98 - 1 ea)											
File Server								50	1		50
Student Workstation								18	6		3
Support Hardware								8	1		8
Installation								6	1		6
National Guard DL Network Connectivity (FY98 - 10 ea)											
Router Multiplexer								850	10		85
Support Hardware								610	10		61
Installation								2000	10		200
TOTAL								19298		26160	

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE	February 1997
B. APPROPRIATION / BUDGET ACTIVITY										C. P-1 ITEM NOMENCLATURE	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment										DISTANCE LEARNING	
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A	
FY98											
Audio Playback System	See Below	Rqt/GSA	TRADOC	Jan-98	Apr-98	15	1	Yes			
Audio Playback System	See Below	Rqt/GSA	TRADOC	Jan-98	May-98	14	1	Yes			
Audio Playback System	See Below	Rqt/GSA	TRADOC	Jan-98	Jun-98	13	1	Yes			
Audio Playback System	See Below	Rqt/GSA	TRADOC	Jan-98	Jul-98	13	1	Yes			
Audio Playback System	See Below	Rqt/GSA	TRADOC	Jan-98	Aug-98	8	1	Yes			
Network Cables,Connectors & Software	See Below	Rqt/GSA	TRADOC	Jan-98	Jan-98	22	VAR	Yes			
Network Cables,Connectors & Software	See Below	Rqt/GSA	TRADOC	Jan-98	May-98	22	VAR	Yes			
Network Cables,Connectors & Software	See Below	Rqt/GSA	TRADOC	Jan-98	Jun-98	18	VAR	Yes			
Network Cables,Connectors & Software	See Below	Rqt/GSA	TRADOC	Jan-98	Jul-98	18	VAR	Yes			
Network Cables,Connectors & Software	See Below	Rqt/GSA	TRADOC	Jan-98	Aug-98	14	VAR	Yes			
Support Hardware	See Below	Rqt/GSA	TRADOC	Jan-98	Apr-98	27	VAR	Yes			
Support Hardware	See Below	Rqt/GSA	TRADOC	Jan-98	May-98	26	VAR	Yes			
Support Hardware	See Below	Rqt/GSA	TRADOC	Jan-98	Jun-98	22	VAR	Yes			
Support Hardware	See Below	Rqt/GSA	TRADOC	Jan-98	Jul-98	22	VAR	Yes			
Support Hardware	See Below	Rqt/GSA	TRADOC	Jan-98	Aug-98	18	VAR	Yes			
Installation	See Below	Rqt/GSA	TRADOC	Jan-98	Apr-98	27	VAR	Yes			
Installation	See Below	Rqt/GSA	TRADOC	Jan-98	May-98	26	VAR	Yes			
Installation	See Below	Rqt/GSA	TRADOC	Jan-98	Jun-98	22	VAR	Yes			
Installation	See Below	Rqt/GSA	TRADOC	Jan-98	Jul-98	22	VAR	Yes			
Installation	See Below	Rqt/GSA	TRADOC	Jan-98	Aug-98	18	VAR	Yes			

REMARKS: Contracts will be awarded to contractors who are on the GSA schedule or who have been awarded requirements contracts.

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE	February 1997
B. APPROPRIATION / BUDGET ACTIVITY											
C. P-1 ITEM NOMENCLATURE											
D. DISTANCE LEARNING											
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST \$000	SPECS AVAIL NOW	SPECS REV REQ'D	IF YES W/A	
FY98											
File Server	See Below	Rqt/GSA	TRADOC	Jan-98	Apr-98	5	17	Yes			
File Server	See Below	Rqt/GSA	TRADOC	Jan-98	May-98	4	17	Yes			
File Server	See Below	Rqt/GSA	TRADOC	Jan-98	Jun-98	4	17	Yes			
File Server	See Below	Rqt/GSA	TRADOC	Jan-98	Jul-98	4	17	Yes			
File Server	See Below	Rqt/GSA	TRADOC	Jan-98	Aug-98	4	17	Yes			
File Server	See Below	Rqt/GSA	TRADOC	Jan-98	Apr-98	1	50	Yes			
Video Server	See Below	Rqt/GSA	TRADOC	Jan-98	Apr-98	5	4	Yes			
Video Server	See Below	Rqt/GSA	TRADOC	Jan-98	May-98	4	4	Yes			
Video Server	See Below	Rqt/GSA	TRADOC	Jan-98	Jun-98	4	4	Yes			
Video Server	See Below	Rqt/GSA	TRADOC	Jan-98	Jul-98	4	4	Yes			
Video Server	See Below	Rqt/GSA	TRADOC	Jan-98	Aug-98	4	4	Yes			
Instructor Prep Workstation	See Below	Rqt/GSA	TRADOC	Jan-98	Apr-98	5	5	Yes			
Instructor Prep Workstation	See Below	Rqt/GSA	TRADOC	Jan-98	May-98	4	5	Yes			
Instructor Prep Workstation	See Below	Rqt/GSA	TRADOC	Jan-98	Jun-98	4	5	Yes			
Instructor Prep Workstation	See Below	Rqt/GSA	TRADOC	Jan-98	Jul-98	4	5	Yes			
Instructor Prep Workstation	See Below	Rqt/GSA	TRADOC	Jan-98	Aug-98	4	5	Yes			
Bulletin Board Server	See Below	Rqt/GSA	TRADOC	Jan-98	Apr-98	5	4	Yes			
Bulletin Board Server	See Below	Rqt/GSA	TRADOC	Jan-98	May-98	4	4	Yes			
Bulletin Board Server	See Below	Rqt/GSA	TRADOC	Jan-98	Jun-98	4	4	Yes			
Bulletin Board Server	See Below	Rqt/GSA	TRADOC	Jan-98	Jul-98	4	4	Yes			
Bulletin Board Server	See Below	Rqt/GSA	TRADOC	Jan-98	Aug-98	4	4	Yes			

REMARKS: Contracts will be awarded to contractors who are on the GSA schedule or who have been awarded requirements contracts.

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE	February 1997
B. APPROPRIATION / BUDGET ACTIVITY											
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment						C. P-1 ITEM NOMENCLATURE					
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY Each	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQ'D	DISTANCE LEARNING	
FY98											
Video Distribution Interfaces	See Below	Rqt/GSA	TRADOC	Jan-98	Apr-98	5	VAR	Yes			
Video Distribution Interfaces	See Below	Rqt/GSA	TRADOC	Jan-98	May-98	4	VAR	Yes			
Video Distribution Interfaces	See Below	Rqt/GSA	TRADOC	Jan-98	Jun-98	4	VAR	Yes			
Video Distribution Interfaces	See Below	Rqt/GSA	TRADOC	Jan-98	Jul-98	4	VAR	Yes			
Video Distribution Interfaces	See Below	Rqt/GSA	TRADOC	Jan-98	Aug-98	4	VAR	Yes			
Printer	See Below	Rqt/GSA	TRADOC	Jan-98	Jan-98	10	2	Yes			
Printer	See Below	Rqt/GSA	TRADOC	Jan-98	May-98	8	2	Yes			
Printer	See Below	Rqt/GSA	TRADOC	Jan-98	Jun-98	8	2	Yes			
Printer	See Below	Rqt/GSA	TRADOC	Jan-98	Jul-98	8	2	Yes			
Printer	See Below	Rqt/GSA	TRADOC	Jan-98	Aug-98	8	2	Yes			
Training Development Workstation	See Below	Rqt/GSA	TRADOC	Jan-98	Apr-98	10	6	Yes			
Training Development Workstation	See Below	Rqt/GSA	TRADOC	Jan-98	May-98	8	6	Yes			
Training Development Workstation	See Below	Rqt/GSA	TRADOC	Jan-98	Jun-98	8	6	Yes			
Training Development Workstation	See Below	Rqt/GSA	TRADOC	Jan-98	Jul-98	8	6	Yes			
Training Development Workstation	See Below	Rqt/GSA	TRADOC	Jan-98	Aug-98	8	6	Yes			
Network Hubs	See Below	Rqt/GSA	TRADOC	Jan-98	Apr-98	5	1	Yes			
Network Hubs	See Below	Rqt/GSA	TRADOC	Jan-98	May-98	4	1	Yes			
Network Hubs	See Below	Rqt/GSA	TRADOC	Jan-98	Jun-98	4	1	Yes			
Network Hubs	See Below	Rqt/GSA	TRADOC	Jan-98	Jul-98	4	1	Yes			
Network Hubs	See Below	Rqt/GSA	TRADOC	Jan-98	Aug-98	4	1	Yes			

REMARKS: Contracts will be awarded to contractors who are on the GSA schedule or who have been awarded requirements contracts.

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE	February 1997
B. APPROPRIATION / BUDGET ACTIVITY					C. P-1 ITEM NOMENCLATURE						
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment					DISTANCE LEARNING						
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A	
FY99											
Router Multiplexer		Rqt/GSA	TRADOC	Jan-99	Apr-99	13		85	Yes		
Router Multiplexer		Rqt/GSA	TRADOC	Jan-99	May-99	12		85	Yes		
Router Multiplexer		Rqt/GSA	TRADOC	Jan-99	Jun-99	12		85	Yes		
Router Multiplexer		Rqt/GSA	TRADOC	Jan-99	Jul-99	12		85	Yes		
Router Multiplexer		Rqt/GSA	TRADOC	Jan-99	Aug-99	12		85	Yes		
Video Teletraining		Rqt/GSA	TRADOC	Jan-99	Apr-99	21		60	Yes		
Video Teletraining		Rqt/GSA	TRADOC	Jan-99	May-99	20		60	Yes		
Video Teletraining		Rqt/GSA	TRADOC	Jan-99	Jun-99	20		60	Yes		
Video Teletraining		Rqt/GSA	TRADOC	Jan-99	Jul-99	20		60	Yes		
Video Teletraining		Rqt/GSA	TRADOC	Jan-99	Aug-99	20		60	Yes		
Student Workstation		Rqt/GSA	TRADOC	Jan-99	Apr-99	230		3	Yes		
Student Workstation		Rqt/GSA	TRADOC	Jan-99	May-99	218		3	Yes		
Student Workstation		Rqt/GSA	TRADOC	Jan-99	Jun-99	208		3	Yes		
Student Workstation		Rqt/GSA	TRADOC	Jan-99	Jul-99	208		3	Yes		
Student Workstation		Rqt/GSA	TRADOC	Jan-99	Aug-99	200		3	Yes		
Instructor Control/Multimedia Workstation		Rqt/GSA	TRADOC	Jan-99	Apr-99	21		20	Yes		
Instructor Control/Multimedia Workstation		Rqt/GSA	TRADOC	Jan-99	May-99	20		20	Yes		
Instructor Control/Multimedia Workstation		Rqt/GSA	TRADOC	Jan-99	Jun-99	20		20	Yes		
Instructor Control/Multimedia Workstation		Rqt/GSA	TRADOC	Jan-99	Jul-99	20		20	Yes		
Instructor Control/Multimedia Workstation		Rqt/GSA	TRADOC	Jan-99	Aug-99	20		20	Yes		
Video/Data Projection System		Rqt/GSA	TRADOC	Jan-99	Apr-99	21		23	Yes		
Video/Data Projection System		Rqt/GSA	TRADOC	Jan-99	May-99	20		23	Yes		
Video/Data Projection System		Rqt/GSA	TRADOC	Jan-99	Jun-99	20		23	Yes		
Video/Data Projection System		Rqt/GSA	TRADOC	Jan-99	Jul-99	20		23	Yes		
Video/Data Projection System		Rqt/GSA	TRADOC	Jan-99	Aug-99	20		23	Yes		
REMARKS: Contracts will be awarded to contractors who are on the GSA schedule or who have been awarded requirements contracts.											

REMARKS: Contracts will be awarded to contractors who are on the GSA schedule or who have been awarded requirements contracts.

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE	February 1997
B. APPROPRIATION / BUDGET ACTIVITY											
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment											
C. P-1 ITEM NOMENCLATURE											
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQD	IF YES W/A	
FY99											
Audio Playback System		Rqt/GSA	TRADOC	Jan-99	Apr-99	21	1	Yes			
Audio Playback System		Rqt/GSA	TRADOC	Jan-99	May-99	20	1	Yes			
Audio Playback System		Rqt/GSA	TRADOC	Jan-99	Jun-99	20	1	Yes			
Audio Playback System		Rqt/GSA	TRADOC	Jan-99	Jul-99	20	1	Yes			
Audio Playback System		Rqt/GSA	TRADOC	Jan-99	Aug-99	20	1	Yes			
Network Cables,Connectors & Software		Rqt/GSA	TRADOC	Jan-99	Apr-99	24	VAR	Yes			
Network Cables,Connectors & Software		Rqt/GSA	TRADOC	Jan-99	May-99	24	VAR	Yes			
Network Cables,Connectors & Software		Rqt/GSA	TRADOC	Jan-99	Jun-99	24	VAR	Yes			
Network Cables,Connectors & Software		Rqt/GSA	TRADOC	Jan-99	Jul-99	23	VAR	Yes			
Network Cables,Connectors & Software		Rqt/GSA	TRADOC	Jan-99	Aug-99	23	VAR	Yes			
Support Hardware		Rqt/GSA	TRADOC	Jan-99	Apr-99	24	VAR	Yes			
Support Hardware		Rqt/GSA	TRADOC	Jan-99	May-99	24	VAR	Yes			
Support Hardware		Rqt/GSA	TRADOC	Jan-99	Jun-99	24	VAR	Yes			
Support Hardware		Rqt/GSA	TRADOC	Jan-99	Jul-99	24	VAR	Yes			
Support Hardware		Rqt/GSA	TRADOC	Jan-99	Aug-99	24	VAR	Yes			
Installation		Rqt/GSA	TRADOC	Jan-99	Apr-99	24	VAR	Yes			
Installation		Rqt/GSA	TRADOC	Jan-99	May-99	24	VAR	Yes			
Installation		Rqt/GSA	TRADOC	Jan-99	Jun-99	24	VAR	Yes			
Installation		Rqt/GSA	TRADOC	Jan-99	Jul-99	24	VAR	Yes			
Installation		Rqt/GSA	TRADOC	Jan-99	Aug-99	24	VAR	Yes			

REMARKS: Contracts will be awarded to contractors who are on the GSA schedule or who have been awarded requirements contracts.

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE	February 1997
B. APPROPRIATION / BUDGET ACTIVITY										C. P-1 ITEM NOMENCLATURE	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment										DISTANCE LEARNING	
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A	
FY99											
File Server		Rqt/GSA	TRADOC	Jan-99	Apr-99	21	17	Yes			
File Server		Rqt/GSA	TRADOC	Jan-99	May-99	20	17	Yes			
File Server		Rqt/GSA	TRADOC	Jan-99	Jun-99	20	17	Yes			
File Server		Rqt/GSA	TRADOC	Jan-99	Jul-99	20	17	Yes			
File Server		Rqt/GSA	TRADOC	Jan-99	Aug-99	2	17	Yes			
Video Server		Rqt/GSA	TRADOC	Jan-99	Apr-99	21	4	Yes			
Video Server		Rqt/GSA	TRADOC	Jan-99	May-99	20	4	Yes			
Video Server		Rqt/GSA	TRADOC	Jan-99	Jun-99	20	4	Yes			
Video Server		Rqt/GSA	TRADOC	Jan-99	Jul-99	20	4	Yes			
Video Server		Rqt/GSA	TRADOC	Jan-99	Aug-99	2	4	Yes			
Instructor Prep Workstation		Rqt/GSA	TRADOC	Jan-99	Apr-99	5	5	Yes			
Instructor Prep Workstation		Rqt/GSA	TRADOC	Jan-99	May-99	3	5	Yes			
Instructor Prep Workstation		Rqt/GSA	TRADOC	Jan-99	Jun-99	3	5	Yes			
Instructor Prep Workstation		Rqt/GSA	TRADOC	Jan-99	Jul-99	3	5	Yes			
Instructor Prep Workstation		Rqt/GSA	TRADOC	Jan-99	Aug-99	3	5	Yes			
Bulletin Board Server		Rqt/GSA	TRADOC	Jan-99	Apr-99	2	4	Yes			
REMARKS: Contracts will be awarded to contractors who are on the GSA schedule or who have been awarded requirements contracts.											

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE
B. APPROPRIATION / BUDGET ACTIVITY										February 1997
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment										
C. P-1 ITEM NOMENCLATURE										
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	DISTANCE LEARNING			IF YES W/A
							UNIT COST	SPECS AVAIL	SPEC REV REQ'D	
						Each	\$000	NOW		
FY99										
Video Distribution Interfaces		Rqt/GSA	TRADOC	Jan-99	Apr-99	21	VAR	Yes		
Video Distribution Interfaces		Rqt/GSA	TRADOC	Jan-99	May-99	20	VAR	Yes		
Video Distribution Interfaces		Rqt/GSA	TRADOC	Jan-99	Jun-99	20	VAR	Yes		
Video Distribution Interfaces		Rqt/GSA	TRADOC	Jan-99	Jul-99	20	VAR	Yes		
Video Distribution Interfaces		Rqt/GSA	TRADOC	Jan-99	Aug-99	2	VAR	Yes		
Printer		Rqt/GSA	TRADOC	Jan-99	Apr-99	5	2	Yes		
Printer		Rqt/GSA	TRADOC	Jan-99	May-99	5	2	Yes		
Printer		Rqt/GSA	TRADOC	Jan-99	Jun-99	3	2	Yes		
Printer		Rqt/GSA	TRADOC	Jan-99	Jul-99	3	2	Yes		
Printer		Rqt/GSA	TRADOC	Jan-99	Aug-99	3	2	Yes		
Dial-In Modems		Rqt/GSA	TRADOC	Jan-99	Apr-99	17	2	Yes		
Dial-In Modems		Rqt/GSA	TRADOC	Jan-99	May-99	17	2	Yes		
Dial-In Modems		Rqt/GSA	TRADOC	Jan-99	Jun-99	17	2	Yes		
Dial-In Modems		Rqt/GSA	TRADOC	Jan-99	Jul-99	15	2	Yes		
Dial-In Modems		Rqt/GSA	TRADOC	Jan-99	Aug-99	15	2	Yes		
Training Development Workstation		Rqt/GSA	TRADOC	Jan-99	Apr-99	4	6	Yes		
Network Hubs		Rqt/GSA	TRADOC	Jan-99	Apr-99	5	1	Yes		
Network Hubs		Rqt/GSA	TRADOC	Jan-99	May-99	3	1	Yes		
Network Hubs		Rqt/GSA	TRADOC	Jan-99	Jun-99	3	1	Yes		
Network Hubs		Rqt/GSA	TRADOC	Jan-99	Jul-99	3	1	Yes		
Network Hubs		Rqt/GSA	TRADOC	Jan-99	Aug-99	3	1	Yes		

REMARKS: Contracts will be awarded to contractors who are on the GSA schedule or who have been awarded requirements contracts.

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE
B. APPROPRIATION / BUDGET ACTIVITY										February 1997
C. P-1 ITEM NOMENCLATURE										
DISTANCE LEARNING										
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQD	IF YES W/A
FY99										
Laptop Computer		Rq/GSA	TRADOC	Jan-99	Apr-99	54	4	Yes		
Laptop Computer		Rq/GSA	TRADOC	Jan-99	May-99	54	4	Yes		
Laptop Computer		Rq/GSA	TRADOC	Jan-99	Jun-99	54	4	Yes		
Laptop Computer		Rq/GSA	TRADOC	Jan-99	Jul-99	52	4	Yes		
Laptop Computer		Rq/GSA	TRADOC	Jan-99	Aug-99	50	4	Yes		
REMARKS: Contracts will be awarded to contractors who are on the GSA schedule or who have been awarded requirements contracts.										

BUDGET ITEM JUSTIFICATION SHEET										DATE	February 1997
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE									
OTHER PROCUREMENT / Communications and Electronics Equipment		CLASSROOM XXI									
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003			
QUANTITY	0	0	0	0	0	0	0	0			
COST (in millions)	0.0	0.0	2.3	1.8	2.4	3.8	3.8	3.8			
<p>DESCRIPTION: This submission provides justification for OPA requirements to support the Classroom XXI Initiative. Classroom XXI represents the training environment in which the soldier of the 21st century will train. This environment leverages information age technology to gain training efficiencies while maintaining training effectiveness. To achieve this environment the training institution must be modernized to support technology based instruction and the Army Distance Learning Program. Classroom XXI identifies 5 levels of classroom based on the training capability provided by the technology associated with each level and the infrastructure support required to support the Classroom XXI environment. Each classroom level affords training developers the opportunity to design training that expands training beyond the confines of the traditional classroom walls, fosters collaborative training among students at various locations, and focuses on student centered learning.</p> <p>JUSTIFICATION: The FY 98 and 99 funds will be used to purchase multimedia training equipment and associated hardware and software which support the Classroom XXI environment. These investments are critical in building a technology based training infrastructure within the training institution for the 21st Century. Without this equipment, the training institution will not have the capability to deliver technology based instruction.</p>											

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				B. WEAPON CLASSROOM XXI		C. MANUFACTURER NAME		D. DATE February 1997	
ID CD	OPA Cost Elements	FY 96		FY 97		FY 98		FY 99			
		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	
	Classroom (Level 3)							1998	10	200	1741
	Technology Support Center							302	3	101	59
	TOTAL							2300			1800

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE
B. APPROPRIATION / BUDGET ACTIVITY										February 1997
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment										
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A
FY98 Classroom (Level 3) Technology Support Center	TBD TBD	Rqt/GSA Rqt/GSA	TRADOC TRADOC	Jan-98 Jan-98	Mar-98 Mar-98	10 3	200 101	Yes Yes		
FY99 Classroom (Level 3) Technology Support Center	TBD TBD	Rqt/GSA Rqt/GSA	TRADOC TRADOC	Jan-99 Jan-99	Mar-99 Mar-99	9 1	193 59	Yes Yes		
REMARKS:										

BUDGET ITEM JUSTIFICATION SHEET										DATE
APPROPRIATION / BUDGET ACTIVITY										February 1997
OTHER PROCUREMENT / Communications and Electronics Equipment										
P-1 ITEM NOMENCLATURE										
TRAINING ACCESSIONS										
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		
QUANTITY	0	0	0	0	0	0	0	0		0
COST (in millions)	0.0	0.0	3.6	5.0	5.2	3.7	4.5	3.4		
<p>DESCRIPTION: The Automated Instructional Management System - Redesign (AIMS-R) provides the integrated tool for individual training management throughout all Army components (Active and Reserve). This procurement will buy workstations, optical scanners, printers, networks, servers, and wide area network connectivity. This ADPE is required to support the design, development, and implementation of individual training at each Army school and training center.</p> <p>JUSTIFICATION: The existing ADPE is old (over 13 years old), obsolete, and failing. Parts are no longer available for some components. On two separate occasions maintenance vendors have indicated they will no longer provide support for various components of the system. Software for the redesign has been developed under the SBIS program. These funds provide the hardware to support the software that will be supplied by SBIS.</p> <p>DESCRIPTION: The Army Training Digital Library (ATDL) will field distributed electronic branch modules capable of providing text, relational database, and video/multimedia data to a global audience. Video/Multi-Media information originating from the Training Centers (e.g. NTC, JRTC) will require significant processing capabilities. The ATDL will interface with the Standard Army After Action Review System (STAARS). One ATDL Branch Library located at a TRADOC school cost \$359K. The total procurement costs to provide branches (Aberdeen, Benning, Bliss, Bragg, Gordon, Huachuca, Jackson, Knox, Leavenworth, Lee, L. Wood, Redstone, Rucker and Sill)" is \$5M. The \$2.9M budget in FY99 will field 8 branches.</p> <p>JUSTIFICATION: Branch Libraries are required to balance the Internet data flow. Locating all information in a centralized location will create an information bottleneck.</p>										

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				B. WEAPON TRAINING ACCESSIONS		C. MANUFACTURER NAME		D. DATE February 1997	
OPA Cost Elements	ID CD	FY 96		FY 97		FY 98		FY 99			
		TotalCost \$000	Qty Each	TotalCost \$000	Qty Each	TotalCost \$000	Qty Each	TotalCost \$000	Qty Each	TotalCost \$000	UnitCost \$000
AIMS-R											
Optical Scanners						600	120			190	40
Workstations						725	250			372	120
Network Connectivity						75	250			27	90
Servers						1250	10			977	7
Printers						290	150			150	70
ATDL											
Video Server						700	1			389	1
Branch Library										2900	8
TOTAL						3640				5005	

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE	February 1997	
B. APPROPRIATION / BUDGET ACTIVITY												
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment						C. P-1 ITEM NOMENCLATURE						
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	TRAINING ACCESSIONS			SPECS AVAIL NOW	SPECS REV REQ'D	IF YES W/A
							UNIT COST \$000					
FY98												
AIMS - R												
Optical Scanners	TBD	Rqt/GSA	TRADOC	Dec-97	Feb-98	120	5	Yes				
Workstations	TBD	Rqt/GSA	TRADOC	Dec-97	Feb-98	250	3	Yes				
Network Connectivity	TBD	Rqt/GSA	TRADOC	Dec-97	Feb-98	250		Yes				
Servers	TBD	Rqt/GSA	TRADOC	Dec-97	Feb-98	10	125	Yes				
Printers	TBD	Rqt/GSA	TRADOC	Dec-97	Feb-98	150	2	Yes				
ATDL												
ATDL Video Server	TBD	Rqt/GSA	TRADOC	Dec-97	Feb-98	1	1	Yes				
FY99												
AIMS - R												
Optical Scanners	TBD	Rqt/GSA	TRADOC	Dec-98	Feb-99	120	5	Yes				
Workstations	TBD	Rqt/GSA	TRADOC	Dec-98	Feb-99	250	3	Yes				
Network Connectivity	TBD	Rqt/GSA	TRADOC	Dec-98	Feb-99	250		Yes				
Servers	TBD	Rqt/GSA	TRADOC	Dec-98	Feb-99	7	140	Yes				
Printers	TBD	Rqt/GSA	TRADOC	Dec-98	Feb-99	150	2	Yes				
ATDL												
ATDL Video Server	TBD	Rqt/GSA	TRADOC	Dec-98	Feb-99	8	363	Yes				
ATDL Branch Library	TBD	Rqt/GSA	TRADOC	Dec-98	Feb-99	1	389	Yes				
REMARKS:												

BUDGET ITEM JUSTIFICATION SHEET										DATE	February 1997
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE									
OTHER PROCUREMENT / Communications and Electronics Equipment		TRAINING TECHNOLOGY									
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003			
QUANTITY	0	0	0	0	0	0	0	0			
COST (in millions)	0.0	0.0	0.0	7.1	7.1	7.1	7.1	7.1	4.1		
<p>DESCRIPTION: The Standard Army After Action Review System (STAARS) will be a network of collection systems and storage facilities that will collect exercise and training event data. It will then analyze and distribute the data, as required, to support an After Action Review (AAR) for each exercise/event. It will have the capability to input the data into the Army Training Digital Library. The initial development of STARRS will be in the development of the AAR systems for WARSIM, CCTT and CTC-IS. Initial fielding of these AAR systems will be at Fort Leavenworth, Fort Hood and the NTC. The follow-on AAR suites will be fielded in the outyears at all exercise, training and testing sites.</p> <p>JUSTIFICATION: STAARS will correct current deficiencies in the AARS systems of the Army. STAARS will connect AAR systems under one framework beginning with standard data elements in WARSIM, CCTT, and evolving AAR systems. There is a need for a high quality AAR tool to support the live, virtual and constructive environments used in home station or deployed training. STAARS will provide the capability to access previous AARS for lessons learned, execute instrumented rehearsals and obtain standardized AAR feed back prior to, during or post deployment throughout the Army by operating sites at each training area to capture, analyze, distribute and store this data. This will then feedback into the Standard Army Training System (SATS) to facilitate better planning for the next training exercise/event. The FY 99 funds will begin the procurement of the initial AAR suites to support the initial fielding of WARSIM and CCTT.</p> <p>DESCRIPTION: The Standard Army Training System (SATS) provides unit training management support throughout Army Active and Reserves. This procurement will buy communications, networking, and processing equipment to support the development, testing, and validation of a fully distributed Corps to company state of the art client-server networked system, SATS version 5.0. Procurement provides SATS version 5.0 developmental system client-server network and procurement of two full function MACOM/CORPS/Division Test Beds. Quantity is 2: 1) SATS developmental system client-server network including application development team equipment and test Division and Brigade S3 and battalion equipment; and 2) two MACOM Test Beds includes equipment setup for CORPS G3 and battalion level units.</p> <p>JUSTIFICATION: This procurement provides critical development, testing, and unit validation for SATS version 5.0. The SATS software will be a distributed client-server system providing full interoperability with sustaining based information services systems at installation/institution level. Test beds located at MACOM sites will rapidly prototype user requirements into software changes for testing and validation. SATS version 5.0 will be a state of the art expert system incorporating latest query/question/response functionality and field validated training management requirements. The version 5.0 software developed, tested, and validated within test bed units using equipment specified will fully support current and future Army Training XXI, Warfighter initiatives.</p>											

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				B. WEAPON TRAINING TECHNOLOGY				C. MANUFACTURER NAME		D. DATE February 1997	
OPA		FY 96		FY 97		FY 98		FY 99					
Cost Elements		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
STAARS													
AAR STAARS HUB											900	2	450
AAR STAARS Remote											300	3	100
STAARS analysis station											500	2	250
STAARS storage elements											300	2	150
SATS													
SATS 5.0 Developmental network & Div/Bde/Bn equipment											1600	1	1600
2 SATS 5.0 MACOM Test Beds											3500	1	3500
TOTAL											7100		

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										
B. APPROPRIATION / BUDGET ACTIVITY		OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				C. P-1 ITEM NOMENCLATURE				
		DATE				February 1997				
		TRAINING TECHNOLOGY								
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY Each	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A
FY99										
STAARS										
AAR STAARS HUB	TBD	GSA	TRADOC	Jan-99	Aug-99	2	450	Yes		
AAR STAARS Remote	TBD	GSA	TRADOC	Jan-99	Aug-99	3	100	Yes		
STAARS analysis station	TBD	GSA	TRADOC	Jan-99	Aug-99	2	250	Yes		
STAARS storage elements	TBD	GSA	TRADOC	Jan-99	Aug-99	2	150	Yes		
SATS										
SATS 5.0 Developmental network & Div/Bde/Bn equipment	TBD	Rqt	TRADOC	Feb-99	Mar-99	1	1610	Yes		
2 SATS 5.0 MACOM Test Beds	TBD	Rqt	TRADOC	Feb-99	Mar-99	1	3591	Yes		
REMARKS:										

BUDGET ITEM JUSTIFICATION SHEET										DATE
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE								February 1997
OTHER PROCUREMENT / Communications and Electronics Equipment		AUTOMATED DATA PROCESSING EQUIP (BD3000)								
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		
QUANTITY	0	0	0	0	0	0	0	0		
COST (in millions)	112.4	136.2	125.1	120.5	124.3	130.3	130.3	134.3		

DESCRIPTION: This budget line supports the Army's sustaining base automation systems. The Army's primary sustaining base information management (IM) goal is to provide information services for the sustainment and readiness of the forces at minimum cost.

JUSTIFICATION: The current sustaining base automation infrastructure is largely overstressed and reaching technological obsolescence. A stable modernization program is essential to maintain efficiency, increase productivity, and reduce operation and maintenance costs through technological advancement. As the Army modernizes its warfighting forces for the twenty-first century, it must leverage the use of automation technology to streamline and modernize its management information systems to support C4I for the Warrior and power projection strategies, split base operations, and downsized force structures. The effectiveness of the CONUS split base operations strategy to perform as the rear area for deployed forces as well as the mobilization, force projection, and redeployment platform is increasingly dependent upon use of state-of-the-art automation technology to provide responsive combat service support to the warfighter in the areas of command and control, logistics, personnel, finance, transportation, medical and other sustaining base functions.

(ID CODE A)

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				B. WEAPON AUTOMATED DATA PROCESSING EQUIP (BD3000)				C. MANUFACTURER NAME		D. DATE February 1997			
OPA		FY 96				FY 97				FY 98				FY 99	
Cost Elements		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost		
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000		
Optical Digital Equip		2801			4543						2951				
Strategic Logistics Program (SLP)		14667			19704						23709				
Acqn Information Management (AIM)		97			1829										
NG Reform Initiative - TITLE XI		6378													
Reserve HQ Automation		816			834			840			816				
ADPE for Non-Tac Mgmt Info Sys					238			252			252				
High Performance Computing		454			418			434			428				
HQ Management Information Systems		5410			6548			3796			3937				
MACOM Automation Systems		30969			15293			21957			14946				
Medical Automation Systems		1781			1653										
Personnel Automation Systems		29648			31159			31460			22323				
Logistics Automation Systems		4844			10328			6351			6100				
Sustaining Base Info Svc (SBIS)		14518			21487						45022				
Joint Computer Aided Acq & Log Spt					22181			35246							
TOTAL		112383			136215			125099			120484				

BUDGET ITEM JUSTIFICATION SHEET										DATE
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE								February 1997
OTHER PROCUREMENT / Communications and Electronics Equipment		OPTICAL DIGITAL EQUIP (BD3956)								
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		
QUANTITY	0	0	0	0	0	0	0	0		
COST (in millions)	2.8	4.5	2.8	3.0	2.3	2.8	2.3	2.9		

DESCRIPTION: This budget line supports high payoff initiatives to replace obsolete, inefficient records management systems with state-of-the-art optical digital equipment and other electronic recordkeeping systems. This technology will reduce operations and maintenance costs and improve the mission effectiveness and productivity of records managers throughout the Army. Personnel Electronic Records Management System (PERMS) provides an electronic system for the maintenance of military personnel files at headquarters level Army Personnel Records Management Centers for Active Army, Army National Guard, and Army Reserve. PERMS, has and will continue to convert current paper and microfiche personnel files to digital images. PERMS will allow for selective retrieval of individual files, groups of files or individual documents within these files. Retrieval selections can be individually tailored to the needs of the soldier, their personnel managers and selection/promotion boards. The Selection Board Subsystem (SBS) will be developed and fielded to support the selection/promotion and schooling of military personnel.

DOCUMENT IMAGING PROCESSING SYSTEMS: This budget line ensures Army compliance with Code of Federal Regulations (CFR) 36 and 41 for economy and efficiency in documenting Army business. This program fields replacement for obsolete equipment at 63 installations which reproduce and distribute Standard Army Management Information System (STAMIS) reports (Personnel, Finance, Logistical, Medical etc.) and Base Operating Reports on microfiche. This program processes 8 billion pages per year, thus avoiding \$100 million in paper costs. It is the key support for on going imaging applications, including costs for software licenses.

JUSTIFICATION:

PERMS: FY 98/99 funds procure SBS hardware for the Army, National Guard and Army Reserve Centralized Promotion/Selection Board Secretariats.

DOCUMENT IMAGING PROCESSING SYSTEMS: FY 98/99 funds procure document imaging and joint multi-media information processing systems. Funds will procure hardware, software and the peripherals necessary to provide various installation data processing centers with the capability to link with existing Defense Mega Center technology. This program will maximize utilization of the Mega Centers and avoid significant potential operation and maintenance costs in the future.

OPA Cost Analysis				A. APPN/BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				B. WEAPON OPTICAL DIGITAL EQUIP (BD3956)				C. MANUFACTURER NAME		D. DATE February 1997					
OPA Cost Elements				FY 96				FY 97				FY 98				FY 99			
ID	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost			
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000			
Standard Army Computer Output Microform (STACOM)																			
STACOM Upgrade	A	1167	VAR	VAR															
Document Imaging Processing System	A				847	VAR	VAR	VAR	874	VAR	VAR	VAR	VAR	864	VAR	VAR			
PERMS	A	1634	VAR	VAR	3696	VAR	VAR	VAR	1886	VAR	VAR	VAR	VAR	2087	VAR	VAR			
TOTAL		2801			4543				2760					2951					

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										
B. APPROPRIATION / BUDGET ACTIVITY					DATE		February 1997			
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment										
C. P-1 ITEM NOMENCLATURE										
OPTICAL DIGITAL EQUIP (BD3956)										
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A
STACOM Upgrade FY 96	Kodak	C/FP	ISSAA	Feb-96	May-96	VAR	VAR	YES	NO	
Document Imaging Processing System FY 96	Kajax, Inc	C/FP	FEDSIM	Dec-95	Jan-96	VAR	VAR	YES	NO	
FY 97	AINS	C/FP	FEDSIM	Dec-96	Jan-97	VAR	VAR	YES	NO	
FY 98	AINS	C/FP	FEDSIM	Dec-97	Jan-98	VAR	VAR	YES	NO	
FY 99	AINS	C/FP	FEDSIM	Dec-98	Jan-99	VAR	VAR	YES	NO	
PERMS FY 96	PRC	C/FP	ISSAA	Jul-96	Aug-96	VAR	VAR	YES	NO	
FY 97	PRC	C/FP	CAC-WOO	Feb-97	May-97	VAR	VAR	YES	NO	
FY 98	PRC	C/FP	CAC-WOO	Dec-97	Mar-98	VAR	VAR	YES	NO	
FY 99	PRC	C/FP	CAC-WOO	Dec-98	Mar-99	VAR	VAR	YES	NO	
REMARKS: Kodak - Eastman Kodak, Rochester, NY AINS - Advanced Information Network Systems, Inc., Rockville, MD ISSAA - United States Army Information Systems Selection and Acquisition Agency FEDSIM - Federal Systems Integration Management Center PRC - Planning Research Corp. - Mclean, VA CAC - WOO - CECOM Acquisition Center - Washington Operations Office VAR - Unit costs and quantities vary by configuration.										

BUDGET ITEM JUSTIFICATION SHEET										DATE
APPROPRIATION / BUDGET ACTIVITY										February 1997
OTHER PROCUREMENT / Communications and Electronics Equipment					P-1 ITEM NOMENCLATURE					STRATEGIC LOGISTICS PROGRAM (SLP) (BD7000)
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		
QUANTITY	0	0	0	0	0	0	0	0		
COST (in millions)	14.7	19.7	22.0	23.7	23.5	21.5	22.2	22.8		

DESCRIPTION: This budget line supports the Total Distribution Program (TDP), an initiative to correct deficiencies in the distribution of materiel, equipment, personnel replacements, and mail, which occurred during Operation Desert Shield/Storm, and to lay the foundation supporting Force XXI and Log Advanced Warfighting Exercises (AWE). Lessons learned during Desert Shield/Storm, revealed that the materiel distribution system suffered from chronic problems. Multiple duplicate orders for supplies and spare parts caused backlogs at ports in CONUS and in the theater of operations. Over 25,000 containers, out of the 40,000 shipped, had to be opened to determine contents. The resulting shortage of spare parts and supplies in the theater area caused otherwise repairable equipment to be deadlined. The purpose of the TDP initiative is to develop an effective distribution pipeline with Total Asset Visibility (TAV) from initial shipping point to destination. Critical corrective actions include development and fielding of communications capability for logistics, the use of emerging technologies to enhance visibility and materiel accountability, upgrade of critical distribution management systems, fielding and maintenance of the required distribution infrastructure, as well as doctrinal changes in distribution management. The Vice Chief of Staff, Army (VCSA) approved Total Distribution Action Plan (TDAP) has identified 140 problem areas with milestones for implementing corrective actions. The TDP supports "Improving Logistics Support in Combat Zones" and the Army Strategic Logistics Plan.

JUSTIFICATION: FY 98/99 funding develops communications capability for transmission of logistics information both within a theater of operations and between the theater and the sustaining base. Work is underway to interface the Tactical Packet Network (TPN), which operates in the tactical environment, with the communications architecture of sustaining base systems, enabling the warfighter to pass data directly to the sustaining base. During the Gulf War, lack of such communications capability was a critical deficiency, which hampered the distribution process. In addition, programmed funds will support the development of source data automation capability, which will be able to generate 'tags' or Automated Information Technology (AIT), for tracking critical materiel throughout the distribution pipeline. These 'tags' can be read in any austere environment and at a distance while assets are moving through DOD facilities.

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				B. WEAPON STRATEGIC LOGISTICS PROGRAM (SLP) (BD7000)				C. MANUFACTURER NAME		D. DATE February 1997	
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99					
ID	CD	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
TPN/DDN Interface Mobile Gateway Van/ DCS Entry Point/Installation Fac	A	610	VAR	VAR									
Packet Switch Upgrade/AN TTC 39A to 39E SSS Program	A	2000	1	VAR	6300	4	VAR	8700	6	VAR	2900	2	VAR
CSS Automation Integration Comm Hardware & Software	A	2680	55	VAR	6000	124	VAR	6000	124	VAR	6000	124	VAR
Automation ID Technology RF Tags/Interrogators/RF Links/Solar Panels	A	9377	VAR	VAR	7404	VAR	VAR	7303	VAR	VAR	14809	VAR	VAR
TOTAL		14667			19704			22003			23709		

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										
B. APPROPRIATION / BUDGET ACTIVITY					DATE		February 1997			
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment					C. P-1 ITEM NOMENCLATURE					
STRATEGIC LOGISTICS PROGRAM (SLP) (BD7000)										
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY Each	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A
TPN/DDN Interface Mobile Gateway Van/ FY 96	VAR*	C/FP	CECOM	VAR**	VAR**	VAR	VAR			
Packet Switches Upgrade FY 96	GTE	C/FP	CECOM	Sep-96	Oct-96	5	VAR*	YES	NO	
FY 97	GTE	C/FP	CECOM	Jun-97	Aug-97	4	VAR*	YES	NO	
FY 98	GTE	C/FP	CECOM	Jun-98	Aug-98	6	VAR*	YES	NO	
FY 99	GTE	C/FP	CECOM	Jun-99	Aug-99	2	VAR*	YES	NO	
CSS Automation Integration Comm Hardware & Software FY 96	VAR***	C/FP	CECOM	Jun-96	Aug-96	55	VAR*			
FY 97	TBS	C/FP	CECOM	May-97	Jul-97	120	VAR*	YES	NO	
FY 98	TBS	C/FP	CECOM	May-98	Jul-98	120	VAR*	YES	NO	
FY 99	TBS	C/FP	CECOM	May-99	Jul-99	120	VAR*	YES	NO	
Automation ID Technology RF Tags/Interrogators/RF Links/Solar Panels FY 96	Savi Tech	C/FP	CECOM	Apr-96	May-96	VAR	VAR*			
FY 97	TBS	C/FP	CECOM	Apr-97	May-97	VAR	VAR*	YES	NO	
FY 98	TBS	C/FP	CECOM	Apr-98	May-98	VAR	VAR*	YES	NO	
FY 99	TBS	C/FP	CECOM	Apr-99	May-99	VAR	VAR*	YES	NO	
REMARKS: GTE - Taunton, MA Savi Tech - Mountain View, CA VAR* - Qty & unit cost vary with location Contracts vary depending on components purchased. VAR** - Multiple contracts awarded/Delivered throughout the year. VAR*** - Data Communications Enterprise, Olney, MD; Sysorex Inc. - Fairfax, VA and Motorola - Tempe, AZ VAR - Unit costs and quantities vary by configuration.										

BUDGET ITEM JUSTIFICATION SHEET									
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE					ACQN INFORMATION MANAGEMENT (AIM) (BE2000)		
OTHER PROCUREMENT /Communications and Electronics Equipment		FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY		0	0	0	0	0	0	0	0
COST (in millions)		0.1	1.8	0.0	0.0	0.0	0.0	0.0	0.0

DATE
February 1997

DESCRIPTION: The Acquisition Information Management (AIM) system is the sole acquisition information initiative which will support the Army acquisition community in a multi-level secure environment. AIM will provide an integrated executive information system capability, which will promote efficiencies in program execution and facilitate statutory reporting from the lowest levels of the acquisition process to Congress. AIM will also provide standard DOD acquisition management data for Acquisition Category (ACAT) I and II and special interest programs, facilitate the exchange of timely, accurate information in a standard reusable format and improve the decision making process of managers at all levels. AIM features incremental development and rapid prototyping. This acquisition process will streamline and expedite the procurement of an information system in support of the Army Acquisition Community (AAC) streamlining initiative by using Commercial Off the Shelf (COTS) and Non-Developmental Item (NDI) products, and existing information technology. The long term AIM objective is to provide the Army leadership with a common, secure, research, development, and acquisition (RDA) information infrastructure by linking acquisition community networks and providing access to authorized users at all levels. Data within the network will be collected, reviewed, validated, controlled and retransmitted to users to meet Army and DOD RDA information management needs. AIM will provide the AAC with the requisite tools to support executive decision making and to improve acquisition information accuracy and timeliness through data sharing, elimination of redundant data entries, and reduction in erroneous data. AIM will provide the infrastructure to process and transmit data in classified and unclassified environments.

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				B. WEAPON ACQN INFORMATION MANAGEMENT (AIM) (BE2000)				C. MANUFACTURER NAME		D. DATE February 1997			
OPA		FY 96				FY 97				FY 98				FY 99	
Cost Elements		TotalCost	Qty	UnitCost	TotalCost	TotalCost	Qty	UnitCost	TotalCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	\$000	Each	\$000	\$000	\$000	Each	\$000	\$000	Each	\$000
OSE Compliant Infrastructure Data Servers/Process Data Servers/ Hardware and Software	A	97	VAR	VAR	1829	VAR	VAR	VAR	VAR						
TOTAL		97			1829										

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE	February 1997
B. APPROPRIATION / BUDGET ACTIVITY		OTHER PROCUREMENT / 2 / Communications and Electronics Equipment					C. P-1 ITEM NOMENCLATURE				
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY Each	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A	
Data Servers & Process/Data Servers/COTS S/W FY 97	TMA	C/FP	Pensacola, NAS	VAR	VAR	VAR	VAR	YES	NO		
Laptops and Peripheral Equipment FY 96	DMI	C/FP	Ft Belvoir	May-96	Aug-96	VAR	VAR	YES	NO		

REMARKS: TMA - Technology Management Analysis - Rosslyn, VA
DMI - Dimension Marketing, Inc., Myrtle Beach, SC
VAR - Unit costs vary by configuration. Award dates are contingent on completion of Site Surveys.

BUDGET ITEM JUSTIFICATION SHEET									
APPROPRIATION / BUDGET ACTIVITY								DATE	
OTHER PROCUREMENT / Communications and Electronics Equipment								February 1997	
P-1 ITEM NOMENCLATURE								NG REFORM INITIATIVE - TITLE XI (BE3800)	
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	
QUANTITY	0	0	0	0	0	0	0	0	0
COST (in millions)	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

DESCRIPTION: This program is an initiative in support of the Army National Guard Combat Readiness Reform Act of 1992. It implements Title XI, Ground Force Readiness Enhancement. Funds are to provide the automation/communications infrastructure necessary for Forces Command (FORSCOM) to support the training of National Guard (NG) units at FORSCOM installations. FORSCOM utilized funds to implement non-tactical trunked radio systems (NTTR) on FORSCOM installations training NG units. Funds bridged shortfalls and add capability to conduct daily business at the installation, linking automation resources within an office or building to the backbone Local Area Network (LAN). Primary emphasis was to comply with the Readiness Reform Act, providing mandated training and equipment.

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				B. WEAPON NG REFORM INITIATIVE - TITLE XI (BE3800)				C. MANUFACTURER NAME		D. DATE February 1997	
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99					
ID	CD	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
Installation Non-Tactical Trunked Radio Sys (NTTR)	A	4375	VAR	VAR									
Departmental Local Area Networks (LANs)	A	1425	VAR	VAR									
TOTAL		5800											

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE
B. APPROPRIATION / BUDGET ACTIVITY										February 1997
C. P-1 ITEM NOMENCLATURE										
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment										
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY Each	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A
Installation Non-Tactical Trunked Radio Sys (NTTR) FY 96	Motorola Inc, Hanover, MD	C/FP	DCMAO, Baltimore	Aug-96	Dec-96	VAR	VAR			
Departmental Local Area Networks (LANs)	VAR**	C/FP	HQ FORSCOM	Aug-96	Dec-96	VAR	VAR			
REMARKS: VAR - Unit costs and quantities vary by site configuration. VAR** - LAN funding was sent to various National Guard Units and FORSCOM installations. DCMAO - Defense Contract Administration Office										

BUDGET ITEM JUSTIFICATION SHEET										DATE
APPROPRIATION / BUDGET ACTIVITY										February 1997
OTHER PROCUREMENT (Communications and Electronics Equipment)					P-1 ITEM NOMENCLATURE					RESERVE HQ AUTOMATION (BE-4000)
QUANTITY	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		
	0	0	0	0	0	0	0	0		
COST (in millions)	0.8	0.8	0.8	0.8	1.9	1.9	2.0	2.0		

DESCRIPTION: USA RESERVE INFORMATION MANAGEMENT MASTER PLAN (USAR IMMP): USAR IMMP provides automation support for Headquarters, US Army Reserve Personnel Center (ARPERCEN) missions, to include providing for Total Army mobilization with trained personnel through command and control, providing life cycle personnel management for Army reserve soldiers and providing personnel services and administrative support to Army Veterans. The Total Army Personnel Data Base (TAPDB) Reserve is the "Top-Of-The-System" central repository of Reserve Personnel data in support of the Army's Personnel Enterprise System. ARPERCEN is responsible for providing the data necessary for the implementation of the Reserve Component Automation System (RCAS), developing interim interface systems that support phased fielding of RCAS, and developing end-state interfaces between TAPDB-Reserve and RCAS.

JUSTIFICATION: FY 98/99 funds support the US Army Reserve Transformation which calls for improved economies and efficiencies in USAR Personnel Management. This plan calls for increased automation support to accomplish a reduction of 413 personnel (25% reduction) in conjunction with the establishment of a new Reserve Personnel Command. Program funding will be key in meeting this goal, continuing the migration of Reserve Business Processes to a client server environment. This migration includes the integration of imaging (Personnel Electronic Records Management System (PERMS)) and networked workstations, in support of personnel and mobilization systems critical to warfighting, accountability, interoperability and veterans.

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				B. WEAPON RESERVE HQ AUTOMATION (BE4000)				C. MANUFACTURER NAME				D. DATE February 1997			
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99		FY 96		FY 97		FY 98		FY 99	
ID	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	
USA Reserve Information Management Master Plan (USARIMMP); Personnel Enterprise System	A	816	1	816	834	1	834	840	1	840	816	1	816	816	1	816	
		816			834						840						
TOTAL		816			834						840			816			

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE
B. APPROPRIATION / BUDGET ACTIVITY										February 1997
C. P-1 ITEM NOMENCLATURE										
RESERVE HQ AUTOMATION (BE4000)										
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY Each	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A
USA Reserve Information Management										
Master Plan (USARIMMP):										
Personnel Enterprise System	EDS	C/FP	GSA	Jun-96	Aug-96	1	816	YES	NO	
FY 96	EDS	C/FP	GSA	Feb-97	Jul-97	1	834	YES	NO	
FY 97	EDS	C/FP	GSA	Feb-98	Mar-98	1	840	YES	NO	
FY 98	EDS	C/FP	GSA	Feb-99	Mar-99	1	816	YES	NO	
FY 99										
REMARKS: EDS - Electronic Data Systems - Reston, VA GSA - General Services Administration, Heartland Region, Kansas City, MO										

BUDGET ITEM JUSTIFICATION SHEET										DATE
APPROPRIATION / BUDGET ACTIVITY										February 1997
OTHER PROCUREMENT / Communications and Electronics Equipment					P-1 ITEM NOMENCLATURE					ADPE FOR NON TAC MGMT INFO SYS (BE4150)
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		
QUANTITY	0	0	0	0	0	0	0	0		
COST (in millions)	0.0	0.2	0.3	0.3	0.0	0.0	0.0	0.0		

DESCRIPTION: This budget line supports the Scaled Model Signature Measurement Facility (SMSMFAC) within the Intelligence and Security Command (INSCOM). The SMSMFAC laboratory develops signature information that is vital to the development, testing, fielding, and reprogramming of present and future smart sensor and munitions systems.

JUSTIFICATION: FY 98/99 funds procure equipment for a target stage, a target stage controller, a High Frequency (HF) spectrum analyzer, microwave intermediate frequency stages, heterodyne systems and a carbon dioxide laser system.

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				B. WEAPON ADPE FOR NON TAC MGMT INFO SYS (BE4150)				C. MANUFACTURER NAME		D. DATE February 1997	
ID CD	OPA Cost Elements	FY 96		FY 97		FY 98		FY 99					
		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
A	Scaled Model Signature Measurement Facility (SMSMFAC)				238	1	238	252	1	252	252	1	252
TOTAL					238			252			252		

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE
B. APPROPRIATION / BUDGET ACTIVITY		C. P-1 ITEM NOMENCLATURE								February 1997
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		ADPE FOR NON TAC MGMT INFO SYS (BE4150)								
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQD	IF YES W/A
Scaled Model Signature Measurement Facility (SMSMFAC)	TBS	Option	INSCOM	Mar-97	Apr-97	1	238	YES	NO	
FY 97	TBS	Option	INSCOM	Dec-97	Jan-98	1	252	YES	NO	
FY 98	TBS	Option	INSCOM	Dec-98	Jan-99	1	252	YES	NO	
FY 99										
REMARKS:										

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				B. WEAPON HIGH PERFORMANCE COMPUTING (BE4152)				C. MANUFACTURER NAME		D. DATE February 1997	
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99					
ID	CD	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
Mass Storage Upgrade	A										428	1	428
Robotic Mass Storage Upgrade	A	454	1	454									
I/O Technology Upgrade	A				418	1	418	434	1	434			
TOTAL		454			418			434			428		

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE
B. APPROPRIATION / BUDGET ACTIVITY										February 1997
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment										
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY Each	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A
C. P-1 ITEM NOMENCLATURE										
HIGH PERFORMANCE COMPUTING (BE4152)										
Mass Storage Upgrade FY 99	TBS	C/FP	ARL	Jan-99	Mar-99	1	428	YES	NO	
Robotic Mass Storage Upgrade FY 96	GMSI	C/FP	ARL	Jan-96	Mar-96	1	454			
I/O Technology Upgrade FY 97	Hi-Tech	C/FP	ARL	Jan-97	Mar-97	1	418	YES	NO	
FY 98	Storage Tech	C/FP	ARL	Jan-98	Mar-98	1	434	YES	NO	
REMARKS: ARL - Army Research Laboratory GMSI - Global Management Systems Inc. - Bethesda, MD Hi-Tech International - Red Wing, MN Storage Tech - Parsippany, NY										

BUDGET ITEM JUSTIFICATION SHEET										DATE
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE								February 1997
OTHER PROCUREMENT / Communications and Electronics Equipment		HQ MANAGEMENT INFORMATION SYSTEMS (BE4161)								
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		
QUANTITY	0	0	0	0	0	0	0	0		
COST (in millions)	5.4	6.5	3.8	3.9	3.9	3.9	4.1	4.2		

DESCRIPTION: This budget line includes a number of information systems that support Army headquarters worldwide. These systems are included in Army's Modernization Plan.

JUSTIFICATION:

HQDA ADPE: Provides for information management support to HQDA across the entire IM spectrum. It includes initiatives approved by a joint Office Secretary of Army/Army Staff (OSA/ARSTAF) senior planning group and is reflected in the HQDA Information Management Plan (DA IMP). FY 98/99 funds buy IM support including file servers, Local Area Networks (LANs), multipurpose workstations, copiers, stand-alone end-user devices, other peripherals and decision support systems. These funds will also purchase a correspondence tracking system, which will provide a flexible, integrated, automated system to support the control and management of actions, correspondence, filed documentation, executive requests and internal actions that will satisfy the needs of organizations within the HQDA staff. Future funding will also procure equipment for the USA Concepts Analysis Agency ADP Modernization Project, which will enable the Army's principal theater-level study agency to perform quick reaction analyses for the Army Staff, MACOMs and OCONUS commands. These acquisitions will continue to improve the productivity of the senior leadership and their staffs located within the National Capital Area through improved access to functional and decision-level information. These decisions impact force structure and modernization, logistics, personnel, finance and every functional area of the Army.

LEGAL AUTOMATION ARMY-WIDE SYSTEM (LAAWS): LAAWS is an approved STAMIS for Army law offices. It supports automated research and preparation of legal advice to Army commanders, from brigade through HQDA level, on target selections, treatment and classification of refugees and prisoners of war, military operations in occupied areas, international treaties, Law of War, etc., and assists individual soldiers with legal readiness matters. LAAWS produces different types of legal documents, including wills and powers-of-attorney. It supports automated legal research, electronic mail (through DDN connectivity), the processing and management of claims for/against the Army and the electronic distribution of legal materials. FY 98/99 funds provide for the acquisition of LANs, CD-ROM drives, software and other peripheral equipment required to support Army law offices' automation standardization and development of an Armywide legal resources network. Automation of law offices is a critical step required to offset the effects of the Army drawdown on legal personnel. It will enable the legal staff to continue its efforts in protecting Army's interests in civil/environmental litigation, procurement fraud, and other legal claims areas. This effort is made even more urgent by today's military involvement in multinational peacekeeping/humanitarian efforts.

BUDGET ITEM JUSTIFICATION SHEET							DATE
APPROPRIATION / BUDGET ACTIVITY							February 1997
OTHER PROCUREMENT / Communications and Electronics Equipment							
P-1 ITEM NOMENCLATURE							HQ MANAGEMENT INFORMATION SYSTEMS (BE4161)
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002
QUANTITY							
COST (in millions)							
<p>(Continuation)</p> <p>HOUSING OPERATIONS MANAGEMENT SYSTEM (HOMES): HOMES is a standard management system designed to provide efficient processing of soldiers' housing needs. It consists of five subsystems which are fully deployed worldwide. HOMES has been identified as a critical element of the Army Family Action Plan to improve the level of housing services to soldiers and families. The system operates on INTEL 310/320's, AT&T 3B2, and HP9000 minicomputers, located in the local housing offices. FY 98/99 funds continue equipment replacement for the Billeting and Assignments & Terminations/Community Homefinding, Referral and Relocation Service/Systems Administration (A&T/CHRRS/SA) subsystems. HOMES is a centrally managed system. The software is centrally developed, and all equipment is centrally approved. Since the initial fielding of HOMES, Army installation Housing Offices have become dependent on the system to fulfill their mission--management of Army housing inventory and its military occupants. The current reassignment of Army units and concomitant relocation of personnel is too large an activity to be managed without an automated information system. Much of the equipment is more than ten (10) years old; INTEL Corporation no longer manufactures replacement parts for this line of computers. Peripheral equipment including form printers, high speed line printers, and communications equipment including statistical multiplexers are failing and repair parts for much of the equipment is unavailable. The HOMES Project Plan includes replacement of INTEL 310/320 hardware, HP9000 computers as LAN servers, IBM compatible Personal Computer Workstations for users, and replacement of impact form printers and high speed line printers. The MS Windows based architecture of this client/server system will support the integration of the HOMES system with local office automation. HOMES has been re-engineered using the IEF/CASE tool to obtain the maintenance benefits identified by CIM/DISA. HOMES has demonstrated software maintenance time reductions of 30%. Software engineered with ICASE tools requires powerful processors, and existing equipment provides inadequate performance. Fielding ICASE generated software requires HP9000 class equipment.</p> <p>STRATEGIC C2 FACILITIES: Provides funds for the Army Operations Center (AOC) and the Command and Control Support Agency. Funding is necessary to maintain state-of-the-art information management capability for the senior leadership of the Army and to obtain a completely integrated, multi-level security system with full connectivity to DOD's Global Command and Control System (GCCS). The system currently includes an Information Processing System with a variety of work-stations; a Local Area Network (LAN - over 250 users); an Automated Message Handling System (AMHS); a Credential Access System (CAS); and a Briefing Display and Support System (BDS), and application tools to manage Army readiness, mobilization, and deployment data. A fully integrated desktop with user friendly tools and access to most Army and DOD databases is a key AOC goal. The system supports every crisis action involving the Army and allows the Senior Army leadership and ARSTAFF Action Officers to quickly access, manipulate, display, brief and send command and control directives and mission essential information. The system supports day-to-day operations within the Army Operations Directorate, as well as all crisis actions and JCS exercises. FY 98/99 acquisitions include critical components (flat screen displays, and LAN hubs, routers, and concentrators) for the LAN, BDS, and CAS to improve system reliability, enhance system management capabilities, and ensure complete compatibility with AGCCS, GCCS and other joint staff initiatives.</p>							

BUDGET ITEM JUSTIFICATION SHEET										DATE
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE								February 1997
OTHER PROCUREMENT / Communications and Electronics Equipment		HQ MANAGEMENT INFORMATION SYSTEMS (BE4161)								
		FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	
QUANTITY										
COST (in millions)										
(Continuation)										
<p>SITE R INTEGRATION PROGRAM (SRIP): The Army, as the Executive Agent for the Alternate Joint Communication Center (AJCC) at Site R, has responsibility to maintain and replace as needed the AJCC Information Management Infrastructure, and ensure the integration of new and improved systems planned for the AJCC. The AJCC includes communications facilities at Site C, Site RT and the underground facility at Site R. The AJCC supports the White House, Office of the Secretary of Defense, Joint Chiefs of Staff, and various other federal and DOD Agencies. The AJCC is also home to the Alternate National Military Command Center (ANMCC) - Site R. Programmed funds support actions involving Tactical Warning/Attack Assessment Systems, Emergency Action Message Dissemination Systems, Nuclear and Nonnuclear Systems, secure and nonsecure voice systems, Facility Support Systems in support of the NMCC - Site R, and the Army's Executive Agent responsibility for the AJCC. FY 98 funds install the Emergency Message Automatic Transmission System Replacement (DIRECT) at Site R. The Air Force will install DIRECT at Site R and US European Command (EUCOM), and the programmed funds will be divided between both sites, with the Army maintaining responsibility for each. DIRECT will replace the current installed system, which produces and distributes Emergency Action Messages (EAMs). The current system is only capable of working in the AUTODIN environment and will not be able to function when the Defense Messaging System (DMS) is implemented. FY 99 funds replace the Page Communication System at Site C, which has become difficult to maintain due to obsolescence. The replacement system costs provide a central processing unit (CPU), software, cabinet mounted receive/transmit/relay equipment, Page Communication site transmitter array and initial warranty service. This project is essential to provide Site C with outside coverage of essential emergency/security service (e.g. Fire, Military Police, Ambulance).</p>										
(ID CODE A)										

OPA Cost Analysis			A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			B. WEAPON HQ MANAGEMENT INFORMATION SYSTEMS (BE4161)			C. MANUFACTURER NAME			D. DATE February 1997		
OPA Cost Elements			FY 96			FY 97			FY 98			FY 99		
ID	CD		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
HQDA ADPE	A		1332	VAR	VAR	1371	VAR	VAR	1392	VAR	VAR	1423	VAR	VAR
LAAWS	A		583	VAR	VAR	270	VAR	VAR	438	VAR	VAR	603	VAR	VAR
DoD Aquisition Desk Book	A					1280	VAR	VAR						
AMIP	A		1314	VAR	VAR	1288	VAR	VAR						
HOMES	A		343	VAR	VAR	480	VAR	VAR	464	VAR	VAR	517	VAR	VAR
Strategic C2 Facilities	A		1431	VAR	VAR	812	VAR	VAR	789	VAR	VAR	702	VAR	VAR
Site R Integration Program	A		407	VAR	VAR	1047	VAR	VAR	713	VAR	VAR	692	VAR	VAR
			5410			6548			3796			3937		
TOTAL														

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE
B. APPROPRIATION / BUDGET ACTIVITY										February 1997
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment										
C. P-1 ITEM NOMENCLATURE										
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A
HQDA ADPE:										
HQDA Correspondence Tracking System										
FY 96	VAR*	C/FP	DSSW	VAR	VAR	VAR	VAR	YES	NO	
FY 97	VAR*	C/FP	DSSW	Feb-97	May-97	VAR	VAR	YES	NO	
FY 98	VAR*	C/FP	DSSW	Feb-98	May-98	VAR	VAR	NO	NO	
FY 99	VAR*	C/FP	DSSW	Feb-99	May-99	VAR	VAR	NO	NO	
CAA ADP Modernization										
FY 96	IBN/Global Management Systems	C/FP	DSSW	VAR	VAR	VAR	VAR	YES	NO	
FY 97	VAR*	C/FP	DSSW	Feb-97	May-97	VAR	VAR	YES	NO	
FY 98	VAR*	C/FP	DSSW	Feb-98	May-98	VAR	VAR	NO	NO	
FY 99	VAR*	C/FP	DSSW	Feb-99	May-99	VAR	VAR	NO	NO	
LAAWS										
Wide Area Network (WAN)										
FY 96	EDS	C/FP	Ft Belvoir	VAR	VAR	VAR	VAR	YES	NO	
FY 97	TBS	C/FP	Ft Belvoir	VAR	VAR	VAR	VAR	YES	NO	
FY 98	TBS	C/FP	Ft Belvoir	VAR	VAR	VAR	VAR	YES	NO	
FY 99	TBS	C/FP	Ft Belvoir	VAR	VAR	VAR	VAR	NO	NO	
DoD Acquisition Desk Book										
FY 97	VAR****	C/FP	PM AFAM	Jan-97	May-97	1	1280	YES	NO	
AMIP										
Workstation hardware & Software										
FY 96	VAR***	C/FP	VAR**	VAR	VAR	VAR	VAR	YES	NO	
FY 97	VAR***	C/FP	VAR**	VAR	VAR	VAR	VAR	YES	NO	
REMARKS:										
PM AFAM - Project Manager Air Force Acquisition Model VAR*** - SUN - Vienna, VA; Silicon Graphics - Silver Springs, MD; Falcon-Landover, MD; IBN - Bethesda, MD										
EDS - Electronic Data Systems - Herndon, VA VAR**** - Modern Tech Corp - Lakehurst, NJ; SEMCOR - Mt. Laurel, NJ; Computer Sys Corp - Kensington, MD										
PRC - Planning Research Corp - Reston, VA Computer System Corp - Falls Church, VA										
VAR - Unit costs and quantities vary by configuration.										
VAR* - Alpha Com - Bethesda MD; Inline Corp - Vienna, VA; PRC - Reston, VA; Global Mgmt Sys - Bethesda, MD; IBN - Vienna, VA, Spectrafax Corp, Bethesda, MD.										
VAR** - National Simulation Center (NSC), Concepts Analysis Agency (CAA), TRADOC Analysis Center (TRAC), USA Material Systems Analysis Activity (USAMSA).										

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										
B. APPROPRIATION / BUDGET ACTIVITY					DATE		February 1997			
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment					C. P-1 ITEM NOMENCLATURE					
HQ MANAGEMENT INFORMATION SYSTEMS (BE4161)										
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQD	IF YES W/A
HOMES										
HP9000 Peripheral Equipment										
FY 96	PRC	C/FP	DCMAO	Jan-96	Feb-96	VAR	VAR	YES	NO	
FY 97	PRC	C/FP	DCMAO	Feb-97	Mar-97	VAR	VAR	YES	NO	
FY 98	PRC	C/FP	DCMAO	Jan-98	Feb-98	VAR	VAR	YES	NO	
FY 97	PRC	C/FP	DCMAO	Jan-99	Feb-99	VAR	VAR	YES	NO	
Strategic C2 Facilities										
Briefing Display System (BDS)										
Security, Admin and Spt Tools										
Automated Message Handling										
BDS Lifecycle replacement										
Data System/Application Management										
COM/LAN Segment; GCCS Integration										
FY 96	JPL/GSA	MIPR/C/FP	NASA/DSSW	VAR	VAR	VAR	VAR	YES	NO	
FY 97	JPL	MIPR	NASA/DSSW	VAR	VAR	VAR	VAR	YES	NO	
FY 98	JPL	C/FP	NASA/DSSW	VAR	VAR	VAR	VAR	NO	NO	
FY 99	JPL	C/FP	DSSW	VAR	VAR	VAR	VAR	NO	NO	
Site R Integration Program										
Matrix Switch BOM/LAN Infrastructure										
FY 96	Tobyhanna	WR	CECOM	VAR	VAR	VAR	VAR			
REMARKS:					DSSW - Defense Supply Service Washington					
DCMAO - Defense Contracting Administration Office										
PRC - Planning Research Corp - Reston, VA										
JPL - Jet Propulsion Laboratory										
NASA - National Aeronautical Space Administration										
ISC - Information Systems Command										
CECOM - Communications and Electronics Command										
VAR - Unit costs and quantities vary by configuration.										

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE	February 1997	
B. APPROPRIATION / BUDGET ACTIVITY		OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				C. P-1 ITEM NOMENCLATURE					HQ MANAGEMENT INFORMATION SYSTEMS (BE4161)	
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQD	IF YES W/A		
DMS Infrastructure FY 97	ISEC/CONUS	MIPR	CECOM/ISMA	Mar-97	Sep-97	1	1048	YES	NO			
Emergency Message System FY 98	TBS	C/FP	USAF	Apr-98	Aug-98	2	358	YES	NO			
Page Communication System FY 99	TBS	C/FP	CECOM	Jul-99	Sep-99	1	699	YES	NO			
REMARKS: CECOM - Communications and Electronics Command ISEC - Information Systems Engineering Command ISMA - Information Systems Management Activity												

BUDGET ITEM JUSTIFICATION SHEET										DATE
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE								February 1997
OTHER PROCUREMENT / Communications and Electronics Equipment		MACOM AUTOMATION SYSTEMS (BE4162)								
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		
QUANTITY	0	0	0	0	0	0	0	0		
COST (in millions)	31.0	15.3	22.0	14.9	26.5	27.3	27.5	28.1		
<p>DESCRIPTION: This budget line supports automation systems requirements of Major Army Commands (MACOMs) and field activities not included in other centrally managed programs. These requirements conform with the Army's Information Management (IM) Architecture and are included in MACOM IM Modernization Plans. Funding has been programmed to accomplish high priority/high payoff initiatives which offer efficiencies and improvements in mission support and reduce operations and maintenance costs. Acquisitions will be accomplished primarily through standard requirements contracts.</p> <p>JUSTIFICATION:</p> <p>MACOM AUTOMATION SYSTEMS: FY 98/99 funds support systems modernization/life cycle replacement throughout Forces Command (FORSCOM), US Army Europe (USAREUR), Training and Doctrine Command (TRADOC), Army Materiel Command (AMC), Military District of Washington (MDW), Eighth US Army (EUSA), US Army Pacific (USARPAC), US Army Recruiting Command (USAREC), Army Signal Command (ASC), Army War College (AWC), and Intelligence and Security Command (INSCOM). Acquisitions include hardware, software, networking products, and peripherals that are required for MACOM/end user level systems architecture and the transition to an open systems environment (OSE). These systems perform vital functions throughout the sustaining base, and modernization is essential to accommodate growing information processing requirements with declining manpower resources. In addition, this funding is necessary to provide life cycle replacement of obsolete information processing equipment (IPE), which will eliminate excessive maintenance costs and facilitate productivity growth through advances in information systems technology, thus streamlining manpower intensive operations. Funding will also support MACOM efforts to reengineer business processes, infrastructure to support leaner organizations, and the total compatibility and interoperability needs of a force projection Army. All acquisitions have or will be supported by MACOM Information Requirements Studies and documentation in the MACOM IM Modernization Plans, all conforming with the Army's IM Architecture.</p>										

BUDGET ITEM JUSTIFICATION SHEET									
APPROPRIATION / BUDGET ACTIVITY		DATE February 1997							
OTHER PROCUREMENT / Communications and Electronics Equipment		P-1 ITEM NOMENCLATURE MACOM AUTOMATION SYSTEMS (BE4162)							
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	
QUANTITY									
COST (in millions)									

(Continuation)

ARMY ELECTRONIC COMMERCE (EC): Army EC synthesizes the benefits of business process re-engineering and the migration from aged paper-based business processes to fully electronic processes. Using streamlined and technically innovative business practices, Army EC unites all functional areas into a cohesive electronic business network. Army EC complements other Defense-wide efforts such as the Defense Acquisition Reform, Corporate Information Management (CIM), and the Joint Computer-Aided Acquisition and Logistics Support (JCALS). EC will allow the Army to expedite normal business transactions, particularly during surges associated with military mobilization. Army EC helps create the digitized power projection platform necessary for the sustainment of the Army's digitized battlefield through electronic commerce with its Industrial Partners. FY 98/99 funds acquire hardware and software upgrades and communications for implementing Army EC based on business process re-engineering efforts and Army priorities. Implementation will be coordinated with functional proponents, Office of the Secretary of Defense (OSD) and the Defense Information Systems Agency (DISA). Acquisitions include hardware and software to accommodate translating electronic output into formats consistent with the Electronic Data Interchange Federal Information Processing Standards (FIPS) 161-2, as well as being compatible with other acquired EC technologies. In addition, Army EC funds the synchronized implementation of two initiatives: Implementation of Electronic Data Interchange and Consolidation of Army Publications Development and Distribution Process. The latter initiative has been expanded by the ASD(C3I) to encompass DOD-wide administrative publications management. In July 1993, the DISC4 was appointed as the DOD (ASD(C3I)) Executive Agent in charge of transitioning the entire DOD Wide Administrative Publications Management Business process from paper based to an electronic based process. On 26 April 1996, the Executive Agent provided a process model demonstration of the "To-Be" environment to the ASD(C3I), which proved the concept for the preferred alternative. The ASD(C3I) accelerated the milestones for implementation of the "To-Be" electronic based environment.

BUDGET ITEM JUSTIFICATION SHEET										DATE February 1997
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE					MACOM AUTOMATION SYSTEMS (BE4162)			
OTHER PROCUREMENT / Communications and Electronics Equipment		FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	
QUANTITY										
COST (in millions)										
(Continuation)										
<p>ARMY WARFIGHTING EXPERIMENT (AWE): Funds support modeling, simulation and FY 98 Joint Venture analysis. Funds purchase equipment that provide the capability for constructive, virtual and live simulation for examination of warfighting concepts across TRADOC's Doctrine, Training, Leader development, Organization, Materiel focused on Soldiers (DTLOMS). FY 98 funds purchase equipment which will augment current materiel used for ongoing TRADOC efforts to analyze information operations, design Force XXI divisions and brigades, support Operational/Systems Architecture development, evaluate the impact of Army light forces during deployment, explore ways to improve force projection, and enhance the Army contribution to joint warfighting. TRADOC funding purchases upgraded wide-area network communication devices and critical capabilities to the Joint Virtual Laboratory and Battle Lab/DOD Simulation Centers.</p>										

OPA Cost Analysis				A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				B. WEAPON MACOM AUTOMATION SYSTEMS (BE4162)				C. MANUFACTURER NAME		D. DATE February 1997		
OPA				FY 96		FY 97		FY 98		FY 99						
Cost Elements				ID	CD	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	
MACOM Automation Systems:																
- FORSCOM Automation				A		1724	VAR	VAR	2172	VAR	VAR	2792	VAR	VAR	2657	VAR
- USAREUR Automation				A		1254	VAR	VAR	706	VAR	VAR	698	VAR	VAR	809	VAR
- TRADOC Automation				A		7650	VAR	VAR	2633	VAR	VAR	3918	VAR	VAR	3738	VAR
- AMC Automation				A		3068	VAR	VAR	2215	VAR	VAR	2034	VAR	VAR	2059	VAR
- MDW Automation				A		1417	VAR	VAR	251	VAR	VAR	296	VAR	VAR	343	VAR
- EUSA Automation				A					103	VAR	VAR	304	VAR	VAR	405	VAR
- USARPAC Automation				A		733	VAR	VAR	310	VAR	VAR	350	VAR	VAR	404	VAR
- USAREC Automation				A		496	VAR	VAR	642	VAR	VAR	597	VAR	VAR	685	VAR
- USAISC (ASC) Automation				A		1903	VAR	VAR	920	VAR	VAR	943	VAR	VAR	852	VAR
- AWC&INSCOM Automation				A		473	VAR	VAR	129	VAR	VAR	226	VAR	VAR	297	VAR
- CIDC Automation				A		855	VAR	VAR	239	VAR	VAR					
- Medical Facility LANS				A		788	VAR	VAR	637	VAR	VAR					
- RDAISA Automation				A		236	VAR	VAR	159	VAR	VAR					
- NGB				A		5800	VAR	VAR								
SUBTOTAL						26397			11116			12158			12249	
Small Computer Program				A		283	VAR	VAR	241	VAR	VAR					
Army Electronic Commerce				A					375	VAR	VAR	609	VAR	VAR	840	VAR
Army Reuse Center (ARC)				A		391	VAR	VAR	250	VAR	VAR	427	VAR	VAR	410	VAR
Army Enterprise Architecture (AEA)				A					1509	VAR	VAR	1409	VAR	VAR	1447	VAR
Software Engr Mod Prq (SEMP)				A		1323	VAR	VAR								
EUCOM Marshall Hall Center				A					796	VAR	VAR					
Louisiana Maneuvers (LAM) Automation				A		275	VAR	VAR								
Army Warfighting Exp (AWE)				A		2300	VAR	VAR	1006	VAR	VAR	7354	VAR	VAR		
TOTAL						30969			15293			21957			14946	

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										
B. APPROPRIATION / BUDGET ACTIVITY				DATE		February 1997				
OTHER PROCUREMENT / Communications and Electronics Equipment										
C. P-1 ITEM NOMENCLATURE										
MACOM AUTOMATION SYSTEMS (BE4182)										
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A
FORSCOM Automation - FORCOM Cmd Data Base - Office Local Area Network - FORSCOM Automation Modernization Effort FY 96 FY 97 FY 98 FY 99	Datacom Datacom CUITN NAWC	C/FP C/FP C/FP MIPR	FORSCOM FORSCOM FORSCOM FORSCOM	Jan-96 Dec-97 Jan-97 Dec-97	VAR VAR VAR VAR	VAR VAR VAR VAR	VAR VAR VAR VAR	YES YES YES YES	NO NO NO NO	
USAREUR Automation - File Server/peripherals - Software - Network Hardware Upgrade FY 96 FY 97 FY 98 FY 99	VAR** VAR** VAR** VAR**	C/FP C/FP C/FP C/FP	Wiesbaden, Germany Wiesbaden, Germany Wiesbaden, Germany Wiesbaden, Germany	VAR* VAR* VAR* VAR*	VAR* VAR* VAR* VAR*	VAR VAR VAR VAR	VAR VAR VAR VAR	YES YES YES YES	NO NO NO NO	
TRADOC Automation - TFXXI Distributed JANUS - VTT - Classroom XXI - Desktop VTC - IM Infrastructure - ATM - Models and Simulation - ADV Sim 2 Concepts										
REMARKS: Datacom - Burr Ridge, IL Ameridata - Atlanta GA IBN - New York, NY VAR* - Multiple contracts awarded/Delivered throughout the year. VAR** - MVP -Gainsville, VA; Small Computer Issue Activity - Local; Ray Communications - Bala Cynwyd, PA VAR - Unit costs and quantities vary by configuration.										

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										
B. APPROPRIATION / BUDGET ACTIVITY					DATE February 1997					
OTHER PROCUREMENT / Communications and Electronics Equipment					C. P-1 ITEM NOMENCLATURE					
MACOM AUTOMATION SYSTEMS (BE4162)										
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A
TRADOC Automation (cont)										
- IMMI										
- VAWF										
FY 96	GSA/Hughes Trng	C/FP	TCA	VAR*	VAR*	VAR	VAR	YES	NO	
FY 97	GSA	C/FP	TCA	VAR*	VAR*	VAR	VAR	YES	NO	
FY 98	GSA	C/FP	TCA/MICOM/STRICOM	VAR*	VAR*	VAR	VAR	YES	NO	
FY 99	GSA	C/FP	TCA	VAR*	VAR*	VAR	VAR	YES	NO	
AMC Automation										
- Minicomputer System										
- Library System										
- DSI Node (LAM)										
- Departmental Local Area Network										
- PADDs										
- C-DEX										
FY 96	PRC	C/FP	ATCOM/MICOM	VAR*	VAR*	VAR	VAR	YES	NO	
FY 97	PRC	C/FP	VAR	VAR*	VAR*	VAR	VAR	YES	NO	
Replace Non-Year 2000 Compliant Hardware										
FY 98	TBS	C/FP	CECOM	VAR*	VAR*	VAR	VAR	YES	NO	
FY 99	TBS	C/FP	CECOM	VAR*	VAR*	VAR	VAR	YES	NO	
REMARKS:										
Hughes Trng - Arlington, TX										
PRC - Planning Research Corp - Reston, VA										
MICOM - Missile Command										
TCA - TRADOC Contracting Agency										
STRICOM - Simulation, Training and Installation Command										
ATCOM - Aviation and Troop Command										
VAR* - Multiple contracts awarded/Delivered throughout the year.										

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE	February 1997
B. APPROPRIATION / BUDGET ACTIVITY										C. P-1 ITEM NOMENCLATURE	
OTHER PROCUREMENT / Communications and Electronics Equipment										MACOM AUTOMATION SYSTEMS (BE4182)	
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST \$000	SPEC AVAIL NOW	SPEC REV REQ'D	IF YES W/A	
MDW Automation											
- Host Communication System											
- AFIC											
- Life Cycle Replacements											
- Van Noy Library System											
FY 96	VAR**	C/FP	Ft Myer	VAR*	VAR*	VAR	VAR	YES	NO		
FY 97	VAR**	C/FP	Ft Myer	VAR*	VAR*	VAR	VAR	YES	NO		
FY 98	VAR**	C/FP	Ft Myer	VAR*	VAR*	VAR	VAR	YES	NO		
FY 99	VAR**	C/FP	Ft Myer	VAR*	VAR*	VAR	VAR	YES	NO		
EUSA Automation											
- LAN/WAN Upgrade											
FY 97	VAR**	C/FP	USACCK	Dec-96	Mar-97	1	103	YES	NO		
FY 98	VAR**	C/FP	USACCK	Dec-97	Mar-98	1	304	YES	NO		
FY 99	VAR**	C/FP	USACCK	Dec-98	Mar-99	1	405	YES	NO		
USARPAC Automation											
Departmental Local Area Network											
FY 96	VAR**	C/FP	Sharpe Army Depot	May-96	Aug-96	VAR	VAR	YES	NO		
FY 97	TBS	C/FP	ISC/Pearl Harbor	VAR*	VAR*	VAR	VAR	YES	NO		
FY 98	TBS	C/FP	ISC/Pearl Harbor	VAR*	VAR*	VAR	VAR	YES	NO		
FY 99	TBS	C/FP	ISC/Pearl Harbor	VAR*	VAR*	VAR	VAR	YES	NO		
REMARKS: AFIC - Armed Forces Inaugural Committee											
VAR - Unit costs and quantities vary by configuration.											
VAR* - Multiple contracts awarded/delivered throughout the year.											
VAR** - Gateway 2000 - N Sioux City, SD; ASAP Software - Buffalo Grove, IL; Advanced Logic Research - Irvine, CA; Bell Atlantic - Arlington, VA; Lyme Computer Sys - Lyme, NH; Government Tech - Chantilly, VA; PCs Complete - Marlborough, MA; Logicaft Info Sys - Duluth, GA; Softmart Inc - Exton, PA; Electronic Data Systems - Herndon, VA; Electronics System of Richmond - Arlington, VA; Advanced Computer Co - Rosslyn, VA; Integration Specialist Inc - Alexandria, VA; Campbell Services - Southfield, MI											

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE	February 1997
B. APPROPRIATION / BUDGET ACTIVITY											
C. P-1 ITEM NOMENCLATURE											
MACOM AUTOMATION SYSTEMS (BE4162)											
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY Each	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A	
USAREC Automation - Recruiting Computer Systems FY 96 FY 97 FY 98 FY 99	VAR	C/FP	CECOM	VAR*	VAR*	VAR	VAR	YES	NO		
	VAR	C/FP	CECOM	VAR*	VAR*	VAR	VAR	YES	NO		
	VAR	C/FP	CECOM	VAR*	VAR*	VAR	VAR	YES	NO		
	VAR	C/FP	CECOM	VAR*	VAR*	VAR	VAR	YES	NO		
USASIS Automation* - HQ ISC/SEC Life Cycle Replacement FY 96 FY 97 FY 98 FY 99	VAR**	C/FP	ISC Contracting	VAR*	VAR*	VAR	VAR	YES	NO		
	VAR**	C/FP	ASC Contracting	VAR*	VAR*	VAR	VAR	YES	NO		
	VAR**	C/FP	ASC Contracting	VAR*	VAR*	VAR	VAR	YES	NO		
	VAR**	C/FP	ASC Contracting	VAR*	VAR*	VAR	VAR	YES	NO		
- HQ ISC/SEC MDW STAMIS Processing Phase II FY 96	VAR**	C/FP	ISC Contracting	VAR*	VAR*	VAR	VAR	YES	NO		
5th Sig Cmd Automation - DPI Consolidation HW/SW FY 96 FY 97 FY 98 FY 99	VAR**/ASCP	C/FP	ISC Contracting	VAR*	VAR*	VAR	VAR	YES	NO		
	TBS	C/FP	ASC Contracting	VAR*	VAR*	VAR	VAR	YES	NO		
	TBS	C/FP	ASC Contracting	VAR*	VAR*	VAR	VAR	YES	NO		
	TBS	C/FP*	ASC Contracting	VAR*	VAR*	VAR	VAR	YES	NO		

REMARKS:

* ISC becomes Army Signal Command (ASC) on 1 Oct 96

ASCP - Army Small Computer Program

VAR - Unit costs and quantities vary by configuration.

VAR* - Multiple contracts awarded/delivered throughout the year.

VAR** - Procurement is accomplished primarily via standard requirements contracts.

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)											
B. APPROPRIATION / BUDGET ACTIVITY					C. P-1 ITEM NOMENCLATURE					DATE	
OTHER PROCUREMENT / Communications and Electronics Equipment					MACOM AUTOMATION SYSTEMS (BE4162)						
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQD	IF YES W/A	
AWC Automation - War College LAN Upgrade FY 96 FY 98 FY 99	Wang Wang Wang	C/FP C/FP C/FP	CECOM CECOM CECOM	Nov-95 Nov-97 Nov-98	Dec-95 Feb-98 Feb-99	1 1 1	65 125 110	YES YES YES	NO NO NO		
	INSCOM Automation - 513th LAN/WAN Systems FY 96 FY 97 FY 98 FY 99	GTE	C/FP	DCMAO Van Nuys	Jan-96	Feb-96	1	412			
		GTE	C/FP	DCMAO Van Nuys	Jan-97	Feb-97	1	129	YES	NO	
GTE		C/FP	DCMAO Van Nuys	Jan-98	Feb-98	1	101	YES	NO		
GTE		C/FP	DCMAO Van Nuys	Jan-99	Feb-99	1	187	YES	NO		
CIDC Automation - Local Area Network (hardware/software) FY 96 FY 97	ORACLE ORACLE/SYSOREX	C/FP C/FP	SAM SAM	VAR* VAR*	VAR* VAR*	VAR VAR	VAR VAR	YES YES	NO NO		
	Medical Facility LANS - Hardware/Software/Communication Upgrade FY 96 FY 97	Daly Computers VAR***	C/FP C/FP	DSSW DSSW	Jun-96 Feb-97	Jul-96 Mar-97	VAR VAR	VAR VAR	YES YES	NO NO	
		REMARKS: Wang - Mclean, VA GTE - Chantilly, VA DCMAO - Defense Contract Administration Office Daly Computers - Gathersburg, MD VAR* - Multiple contracts awarded/Delivered throughout the year. VAR - Unit costs and quantities vary by configuration. VAR***. Procurement is accomplished primarily via standard requirements contracts.									

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										
B. APPROPRIATION / BUDGET ACTIVITY					DATE		February 1997			
OTHER PROCUREMENT / Communications and Electronics Equipment					C. P-1 ITEM NOMENCLATURE					
MACOM AUTOMATION SYSTEMS (BE4162)										
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A
RDAlSA Automation										
- Building Security System										
- High Speed Duplicator										
FY 96	VAR**	C/FP	ISC	Feb-96	Jul-96	0	VAR			
- Network Modernization										
FY 97	DEC 8A	C/FP	OIS	Mar-97	Apr-97	1	159	YES	NO	
Small Computer Program										
- Hardware & Software										
FY 96	PRC	C/FP	CECOM	VAR*	VAR*	VAR	VAR			
FY 97	DEC & Hewlett Packard	C/FP	CECOM	Feb-97	Apr-97	VAR	VAR			
Army Electronic Commerce										
- ADPE/Software/Communication Devices										
FY 97	TBS	C/FP	ISSAA	Mar-97	Jun-97	VAR	VAR	YES	NO	
FY 98	TBS	C/FP	ISSAA	Mar-98	Jun-98	VAR	VAR	YES	NO	
FY 99	TBS	C/FP	ISSAA	Mar-99	Jun-99	VAR	VAR	YES	NO	
ISSC Automation										
- Army Reuse Center (ARC) Hw/Sw Analysis Tools										
FY 96	VAR**	C/FP	Ft Belvoir	VAR*	VAR*	VAR	VAR	YES	NO	
FY 97	TBS	C/FP	Ft Belvoir	VAR*	VAR*	VAR	VAR	YES	NO	
FY 98	TBS	C/FP	Ft Belvoir	VAR*	VAR*	VAR	VAR	YES	NO	
FY 99	TBS	C/FP	Ft Belvoir	VAR*	VAR*	VAR	VAR	YES	NO	
REMARKS:										
Hewlett Packard - Rockville, MD										
DEC - Digital Electronics Corp - Landover, MD										
PRC - Planning Research Corp - Reston, VA										
VAR* - Multiple contracts awarded/delivered throughout the year.										
VAR** - DEC - Digital Electronics Corp - Landover, MD; Xerox - Rochester, NY										
VAR - Unit costs and quantities vary by configuration.										

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)												
B. APPROPRIATION / BUDGET ACTIVITY		OTHER PROCUREMENT / Communications and Electronics Equipment					C. P-1 ITEM NOMENCLATURE					
							MACOM AUTOMATION SYSTEMS (BE4162)					
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A		
ISSC Automation (Cont)												
- Software Engr Mod Prg (SEMP) Net Infrastructure												
FY 96	VAR**	C/FP	Ft Belvoir	VAR*	VAR*	VAR	VAR					
FY 97	VAR**	C/FP	Ft Belvoir	VAR*	VAR*	VAR	VAR	YES	NO			
FY 98	VAR**	C/FP	Ft Belvoir	VAR*	VAR*	VAR	VAR	YES	NO			
FY 99	VAR**	C/FP	Ft Belvoir	VAR*	VAR*	VAR	VAR	YES	NO			
EUCOM Marshall Hall Center												
- FY 97- Network Infrastructure and Library	TBS	C/FP	Weisbaden, Germany	May-97	Jul-97	VAR	VAR	YES	NO			
LAM Automation												
FY 96 - Force XXI Simulation Center	COLSA/SSDC	C/FP	TRADOC/LAM Office	Jan-96	Mar-96	VAR	VAR					
Army Warfighting Exp (AWE)												
- Silicon Graphics Onyx Computers												
- Communications Hardware, Software and Peripherals												
FY 97	VAR***	C/FP	MICOM	VAR*	VAR*	VAR	VAR	YES	NO			
FY 98	VAR***	C/FP	MICOM	VAR*	VAR*	VAR	VAR	YES	NO			
REMARKS: SSDC - Strategic Space Defense Cmd COLSA, Inc - Huntsville, AL VAR - Unit costs and quantities vary by configuration. VAR* - Multiple contracts awarded/Delivered throughout the year. VAR** - Procurement is accomplished primarily via standard requirements contracts. VAR*** - Silicon Graphics - Silver Springs, MD; Various standard requirements contracts.												
LAM - Louisiana Maneuvers ISSAA - Information Systems Selection and Acquisition Agency												

BUDGET ITEM JUSTIFICATION SHEET									
APPROPRIATION / BUDGET ACTIVITY					P-1 ITEM NOMENCLATURE				
OTHER PROCUREMENT / Communications and Electronics Equipment					MEDICAL AUTOMATION SYSTEMS (BE4163)				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	
QUANTITY	0	0	0	0	0	0	0	0	
COST (in millions)	1.8	1.7	0.0	0.0	0.0	0.0	0.0	0.0	

DATE
February 1997

DESCRIPTION: These funds procure information systems for the Army Medical Command (MEDCOM). The MEDCOM systems support the clinical and health care management areas and use existing applications purchased on standard Army contracts. Funds will be used to procure new equipment and software, LANs, and to upgrade and replace existing systems at the Army medical treatment facilities. This program also supports the Army portion of the DOD-wide Defense Blood Support System (DBSS), which is a tactical automated blood management system. This system provides the capability to manage blood program operations such as collecting, manufacturing, testing, processing, freezing, storing, shipping, distributing, and issuing blood and blood products for infusion or destruction. DBSS utilizes a client/server architecture in accordance with the guidelines provided by the Military Health Services Systems (MHSS). This system will be used by deployable medical service elements, blood supply units, and Joint Blood Program Offices. Efficient/effective management of blood products within the theater is critical to the sustainment of the life of battlefield casualties. The DBSS allows deployed elements to manage, receive, store, ship and track blood products/donors. The system supports these functions through the provision of donor collection data (at either mobile and fixed sites), inventory control, management reporting, and transfusion services. DBSS facilitates post-transfusion follow-up and the tracking of suspected/tainted blood supplies.

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				B. WEAPON MEDICAL AUTOMATION SYSTEMS (BE4163)				C. MANUFACTURER NAME		D. DATE February 1997	
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99					
		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
Defense Blood Support System (DBSS)		1781	VAR	VAR	1653	VAR	VAR						
TOTAL		1781			1653								

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE
B. APPROPRIATION / BUDGET ACTIVITY										February 1997
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment										
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY Each	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A
Defense Blood Support System (DBSS) FY 96 FY 97	Cordant, Inc Cordant, Inc	C/FP C/FP	DSSW DSSW	Jun-96 Feb-97	Jul-96 Mar-97	VAR VAR	VAR VAR	YES YES	NO NO	
REMARKS: Cordant, Inc - Washington DC VAR - Unit costs and quantities vary by configuration. DSSW - Defense Supply Services Washington										

BUDGET ITEM JUSTIFICATION SHEET									
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE							DATE
OTHER PROCUREMENT / Communications and Electronics Equipment		PERSONNEL AUTOMATION SYSTEMS (BE4184)							
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	
QUANTITY	0	0	0	0	0	0	0	0	
COST (in millions)	29.6	31.2	31.5	22.3	25.3	23.1	22.6	23.1	

DESCRIPTION: This budget line procures the automated data processing equipment (ADPE) for management information systems in the personnel community. The systems are part of the approved Personnel System Architecture and the Army's Modernization Plan.

JUSTIFICATION:

PERSONNEL ENTERPRISE SYSTEM-AUTOMATION (PES-A): PES-A is an ADP acquisition and redesign/implementation program which insures that an adequate, modern, state-of-the-art automation infrastructure (automation training, computer platforms, services, telecommunications and productivity/automation tools) is available to support the War Fighter. The PES-A supports all five personnel functions, including recruiting, and is key to execution of day-to-day operations within the Army (e.g., strength accounting, personnel movement, assignment actions, career management, training, recruiting, reenlistment, and mobilization). It is the vehicle by which personnel are managed and information is provided to DOD, and ultimately, to Congress. The PES-A provides interoperability between key data processing installations of the Army's Personnel Community; the Total Army Personnel Command (PERSCOM), Army Reserve Personnel Center (ARPERCEN), Army Recruiting Command (USAREC), National Guard Personnel Center (NGPERCEN), and the Military Entrance Processing Command (MEPCOM), a joint command for which the Army is the executive agent. It has been the cornerstone of the Army's personnel automation architecture since 1987 and has the flexibility/capability required to support emerging systems through the late 1990's and beyond. It fits into the Army Enterprise Strategy, supporting the modernization of Power Projection Platforms. It is fully compatible with and supports DOD's Enterprise Strategy/Corporate Information Management (CIM) initiative, and the Administration's Information Superhighway Initiative. FY 98/99 funding buys automation infrastructure, communications capability, and system modeling to support the personnel community consolidation initiative and distributed processing capabilities. Funds will continue the implementation of PES-A, further integrating the Army's personnel community, with emphasis on system interoperability and the Total Army Personnel Data Base.

USMEPCOM JOINT COMPUTER CENTER (JCC): A memorandum of understanding between DOD and Selective Service System (SSS) formalized the establishment of the JCC where automatic data processing resources can be shared by USMEPCOM and SSS. The JCC mission includes the management and enhancement of shared resources, in full support of USMEPCOM and SSS peacetime and mobilization mission requirements. To provide the required mobilization manpower flow, USMEPCOM will process 4-5 times as many applicants into the armed services as they are currently processing. This program includes actions to add additional storage control units with cache memory and to replace old type Direct Access Storage Devices (DASD) technology with newer technology, to support current and future mission requirements. FY 98/99 funds purchase additional DASD, two high speed printers, and mainframe technology refreshment to maximize existing resources and support SSS and MEPCOM mobilization and peace time growth requirements.

BUDGET ITEM JUSTIFICATION SHEET										DATE
APPROPRIATION / BUDGET ACTIVITY										February 1997
OTHER PROCUREMENT (Communications and Electronics Equipment)										
P-1 ITEM NOMENCLATURE										
PERSONNEL AUTOMATION SYSTEMS (BE4164)										
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		
QUANTITY										
COST (in millions)										
<p>(Continuation)</p> <p>US MILITARY ACADEMY (USMA) IMA MODERNIZATION: The USMA is an accredited institution of higher learning. To maintain its accreditation standards and to instruct/prepare future Army leaders to operate in the sophisticated high-tech world of modern warfare, it must employ in its classrooms/laboratories the latest technology/instructional tools available. Mini/microcomputers supporting the academic departments, must periodically be replaced as they become technologically obsolete or uneconomical to repair. FY 98/99 funding continues conversion of classrooms, upgrading classroom audio and video facilities. Additionally, funds will procure digital imaging and photography technology, USMA wide area network (WAN) upgrades, and expanded library software.</p> <p>USMEPCOM INTEGRATED RESOURCE SYSTEM (MIRS): The purpose of the US Military Entrance Processing Command (USMEPCOM) MIRS is to provide the automation and communication capability for USMEPCOM to meet its peacetime, mobilization and wartime military manpower accession mission in the 1990s and beyond. The MIRS will be the cornerstone for a DOD-wide military accession system, incorporating the concept of electronic data sharing between USMEPCOM and the recruiting services, greatly reducing redundant data entry. It will replace the current Military Entrance Processing Reporting System, Automated Test Scoring and Student Test Scoring Systems, as well as other partially automated and manual procedures used in applicant processing. MIRS will replace saturated and obsolete systems at 66 Military Enlistment Processing Stations (MEPS) throughout the United States and is vital to sustaining USMEPCOM's accession and data distribution mission. MIRS will accommodate DOD requirements for data capture and service connectivity. Connectivity to MIRS needs to be established with all the services in order to eliminate the need for redundant data entry and reduce the number of data input errors that take place due to the number of various users. A validated Economic Analysis showed cost avoidance of \$32M can be achieved by replacement of the current system. FY 98/ 99 funds buy hardware, software, and peripheral equipment to continue phased fielding and sustainment of MIRS to the MEPS. FY 99 funds also include upgrade and replacement for life cycle sustainment of the system.</p> <p>DEFENSE CIVILIAN PERSONNEL DATA SYSTEM MODERNIZATION (DCPDS MOD): Army DCPDS MOD efforts will support the standardization of business processes in the Civilian Personnel functional area and regionalization of Civilian Personnel Offices. DCPDS MOD OPA expenditures provide automation infrastructure to support fielding of this DOD-wide system to Army activities receiving the DCPDS MOD capability. Automation infrastructure fielded to Army activities will consist of Open System Environment (OSE) compliant data and process servers, user workstations, system peripherals, communications infrastructure, and Commercial Off the Shelf (COTS) software, (operating system, DBMS, office automation, etc.) fielded to ten Army Regional Service Centers (RSCs) and more than 100 subordinate installation level Customer Support Units (CSUs). Army automation infrastructure will be compatible with the DOD</p>										

BUDGET ITEM JUSTIFICATION SHEET							DATE	
APPROPRIATION / BUDGET ACTIVITY							February 1997	
OTHER PROCUREMENT / Communications and Electronics Equipment		P-1 ITEM NOMENCLATURE						
PERSONNEL AUTOMATION SYSTEMS (BE4164)								
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (in millions)								
<p>(Continuation)</p> <p>DCPDS MOD application software and integrate with the OSE architecture at Army's sustaining base sites. Procurement strategy makes maximum use of existing contracts. This effort is projected to improve DOD wide productivity over 30% in the civilian personnel management functional area in order to accommodate reductions already applied to outyear Army Budget. FY 98/99 funds procure automation infrastructure to support the necessary productivity enhancements. Included in this infrastructure procurement are Local Area Networks (LANs), workstations, servers and printers. FY98/99 funds will procure this automation infrastructure to field 1 RSCs and 18 CSUs, completing the Western Region, and Saudi Arabia.</p> <p>JOINT RECRUITING INFORMATION SUPPORT SYSTEM (JRISS): The JRISS program will support the standardization of business processes in the Military Recruiting functional area. Army is the DOD lead agency for this automation initiative. JRISS OPA expenditures provide automation infrastructure to support development of software for the DOD-wide system and for fielding to Army users. JRISS automation infrastructure consists of OSE compliant automation hardware and Commercial Off The Shelf (COTS) software (operating system, DBMS, office automation, etc.). Acquisitions use existing Army and DOD-wide contracts, and systems will be fielded to all levels of the Army recruiting structure. JRISS will aid the DOD in its new accession goals in an era of steadily dwindling resources and shrinking pool of military service applicants. JRISS's key benefits include establishment of standard personnel data elements and point of entry core personnel data input for recruits. FY 98/99 funds support full JRISS deployments to complete 1 Recruiting Brigade partially fielded in FY97 and deploy 1 additional Brigade in each of FY98 - 99. Funds will procure automation infrastructure, to include Local Area Networks (LANs), workstations, servers, and printers.</p>								

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				B. WEAPON PERSONNEL AUTOMATION SYSTEMS (BE4164)				C. MANUFACTURER NAME		D. DATE February 1997	
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99					
ID	CD	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
ACBERS	A	626	VAR	VAR	391	VAR	VAR	VAR					VAR
Personnel Enterprise System-Automation (PES-A)	A	514	VAR	VAR	4089	VAR	VAR	VAR	VAR	5010	VAR	7940	VAR
MEPCOM JCC	A				789	VAR	VAR	VAR	VAR	698	VAR	715	VAR
USMA IMA Modernization	A	2505	VAR	VAR	2270	VAR	VAR	VAR	VAR	2429	VAR	2474	VAR
MEPCOM Integrated Resource System (MIRS)	A	3531	VAR	VAR	322	VAR	VAR	VAR	VAR	475	VAR	554	VAR
DCPDS MOD	A	2278	VAR	VAR	3498	VAR	VAR	VAR	VAR	4470	VAR	415	VAR
Joint Recruiting Information Support (JRISS)	A	20194	VAR	VAR	19800	VAR	VAR	VAR	VAR	18378	VAR	10225	VAR
TOTAL		29648			31159					31460		22323	

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE	February 1997
B. APPROPRIATION / BUDGET ACTIVITY											
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment											
C. P-1 ITEM NOMENCLATURE											
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A	
ACPERS HW/SW/Peripherals FY 96 FY 97	EDS EDS	SMC SMC	Ft Monmouth Ft Monmouth	Feb-96 Feb-97	Jun-96 TBD	VAR 1	VAR 391	YES YES	NO NO		
Personnel Enterprise System-Automation (PES-A) HW/SW Upgrades FY 96 FY 97 FY 98 FY 99	EDS EDS EDS EDS	C/FP C/FP C/FP C/FP	ISSAA CAC-WOO CAC-WOO CAC-WOO	Mar-96 Mar-97 Mar-98 Mar-99	Sep-96 Oct-97 Oct-98 Oct-99	1 VAR VAR VAR	514 VAR VAR VAR	YES YES YES YES	NO NO NO NO		
MEPCOM JCC Mainframe Software/DASD/Mainframe Upgrade/ Printers/Tape Drives FY 96 FY 97 FY 98 FY 99	IBM/Computer Sales TBS TBS TBS	C/FP C/FP C/FP C/FP	Rock Island GSA GSA GSA	Jan-96 Feb-97 Feb-98 Jan-99	Feb-96 Mar-97 Mar-98 Feb-99	VAR VAR VAR VAR	VAR VAR VAR VAR	YES YES YES YES	NO NO NO NO		
USMA IMA Modernization Computer Lab HW/SW Upgrade/Library System/ Servers FY 96 FY 97 FY 98 FY 99	VAR* VAR* VAR* VAR*	C/FP C/FP C/FP C/FP	USMA/ISMA USMA USMA USMA	VAR VAR VAR VAR	VAR VAR VAR VAR	VAR VAR VAR VAR	VAR VAR VAR VAR	YES YES YES YES	NO NO NO NO		
REMARKS: EDS - Electronic Data Systems - Herndon, VA USMA - US Military Academy IBM - Oakbrook, IL Computer Sales International - St Clair Shores, MN VAR - Unit costs and quantities vary by configuration. VAR* - Halifax Engineering - Halifax, VA; Computer Science Dev Corp - Chantilly, VA; Dice America - Suffern, NY; IHS Logcraft - Nashua, NH, EDS - Plano, TX; Manufacturing Tech - Ft Walton, FL; Applied Info Service - Arlington, VA; General Info Tech - New York, NY; Pruitt Office Machine, Decatur, AL;											

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE	
B. APPROPRIATION / BUDGET ACTIVITY											
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment											
C. P-1 ITEM NOMENCLATURE											
PERSONNEL AUTOMATION SYSTEMS (BE4164)											
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A	
MEPCOM Interactive Resource System (MIRS)											
CAT-ASVAB Hw/Sw/Furniture	VAR***	C/FP	GSA	VAR*	VAR*	VAR	VAR	YES	NO		
FY 96	Lockheed-Martin	C/FP	ISSAA	VAR*	VAR*	VAR	VAR	YES	NO		
Hardware/Software Upgrade	Lockheed-Martin	C/FP	CAC-WOO	Jan-97	Mar-97	VAR	VAR	YES	NO		
FY 96	Lockheed-Martin	C/FP	CAC-WOO	Jan-98	Mar-98	VAR	VAR	YES	NO		
FY 97	Lockheed-Martin	C/FP	CAC-WOO	Jan-99	Mar-99	VAR	VAR	YES	NO		
FY 98											
FY 99											
DCPDS MOD											
Hardware/Software Upgrade	VAR**	C/FP	ISSAA	VAR*	VAR*	VAR	VAR	YES	NO		
FY 96	VAR**	C/FP	CAC-WOO	VAR*	VAR*	VAR	VAR	YES	NO		
FY 97	VAR**	C/FP	CAC-WOO	VAR*	VAR*	VAR	VAR	YES	NO		
FY 98	VAR**	C/FP	CAC-WOO	VAR*	VAR*	VAR	VAR	YES	NO		
FY 99	VAR**	C/FP	CAC-WOO	VAR*	VAR*	VAR	VAR	YES	NO		
Joint Recruiting Information Support (JRISS)											
- Hardware/Software Upgrades	Lockheed-Martin	C/FP	ISSAA	VAR*	VAR*	VAR	VAR	YES	NO		
- Data/Process/Application Data Servers	SYSOREX	C/FP	CAC-WOO	Jun-97	Aug-97	VAR	VAR	YES	NO		
- Workstations	TBS	C/FP	CAC-WOO	Jan-98	Mar-98	VAR	VAR	YES	NO		
- COTS Software	TBS	C/FP	CAC-WOO	Jan-99	Mar-99	VAR	VAR	YES	NO		
FY 96											
FY 97											
FY 98											
FY 99											
REMARKS:											
Lockheed-Martin - Oswego, NY											
VAR - Unit costs and quantities vary by configuration.											
VAR* - Multiple contracts awarded/Delivered throughout the year.											
VAR** - PRC - Planning Research Corp - Reston, VA; EDS - Electronic Data Systems - Herndon, VA; Lockheed-Martin - Oswego, NY											
VAR*** - UNICOR - Lexington, KY; Lockheed-Martin - Oswego, NY; GSA Contractors											
ISSAA - Information Systems Selection and Acquisition Agency											
CAC-WOO - CECOM Acquisition Center-Washington Operations Office											

BUDGET ITEM JUSTIFICATION SHEET									
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE							DATE
OTHER PROCUREMENT / Communications and Electronics Equipment		LOGISTICS AUTOMATION SYSTEMS (BE4166)							February 1997
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	
QUANTITY	0	0	0	0	0	0	0	0	
COST (in millions)	4.8	10.3	6.4	6.1	6.5	7.3	6.1	6.4	

DESCRIPTION: This budget line funds automation initiatives which support transportation, cargo movement, and resupply initiatives under the Army's Strategic Mobility Program (ASMP), begun in part as a result of lessons learned from Operation Desert Shield/Storm and the Congressionally mandated Mobility Requirements Study (MRS). The Army is changing its warfighting strategy from a forward deployed force to a CONUS-based force capable of rapid deployment worldwide. At the center of this strategy of rapid force movement are a number of transportation automated systems that facilitate/expedite force movement and resupply.

JUSTIFICATION: WORLDWIDE PORT SYSTEM (WPS) is a Military Traffic Management Command (MTMC) automated information system (AIS) initiative essential to effective force projection and in transit visibility of unit and sustainment cargos. At the center of the new Army strategy for rapid power projection to meet unspecified threats, WPS is one of several systems that provide movement control support to the Army's Strategic Mobility Program, initiated as a result of lessons learned from Operation Desert Shield/Storm and the Congressionally mandated MRS. When fully fielded, WPS will support MTMC ocean terminals, US Navy port activities worldwide, FORSCOM Reserve Component Transportation Terminal Units, and Active Component Automated Cargo Documentation Detachments with worldwide warfighting support missions. Compact and transportable, WPS substantially increases the ability of the Defense Transportation System to provide in transit visibility information to the warfighting CINCs and USTRANSCOM, while reducing the personnel required to operate the system and the transportation required to deploy the system to remote places. WPS will replace four aging AISs that support ocean terminal management and cargo documentation missions during peace and war. The replaced AISs include the obsolete Terminal Management System in CONUS, and the Army Standard Port System - Enhanced, whose significant deficiencies were identified during Operation Desert Shield/Storm. FY 98/99 funds buy hardware and software to continue fielding WPS to selected sites.

AIR LOAD MODULE (ALM): ALM is a knowledge based "expert system" that assists user with aircraft planning. The Army originally developed ALM as the Automated Air Load Planning System (AALPS) to provide a stand alone expert tool for Army load planning and deploying units. ALM uses an artificial intelligence methodology to load plan for aircraft in near real time. The system takes data input of equipment and personnel, establishes gross load planning information, and quickly produces fully executable (certified) load plans for either a single mission, brigade sized deployment or multiple division sized airlift. ALM is an approved migration system, and though it is a joint system, the Army is designated as the proponent, responsible for developing, implementing and fielding it to the services. FY 99 funds will be used to purchase hardware and software for Army users, supplying them with a deployable automated platform for developing load plans and manifests, which will be used in air deployments and in determining airlift requirements during contingency planning operations. Fielding sites are Ft Bragg, Ft Campbell, Ft Stewart, Ft Benning, Ft Drum, Ft Hood, Ft Lewis, USAREUR, Schofield Barracks, Ft Bliss, Ft Riley, Ft Sill, Ft Carson, Ft Richardson, Ft Polk, Ft Irwin, Ft Huachuca, Ft Lee, Ft McCoy, Ft McPherson, and Ft Dix.

BUDGET ITEM JUSTIFICATION SHEET										DATE
APPROPRIATION / BUDGET ACTIVITY										February 1997
OTHER PROCUREMENT / Communications and Electronics Equipment										
P-1 ITEM NOMENCLATURE										
LOGISTICS AUTOMATION SYSTEMS (BE4166)										
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		
QUANTITY										
COST (in millions)										
<p>(Continued)</p> <p>INTEGRATED COMPUTERIZED DEPLOYMENT SYSTEM (ICODES): ICODES is being developed as a single standard common user stow planning system to meet DOD worldwide requirements. ICODES is a Military Traffic Management Command (MTMC) initiative, applying the principles of Artificial Intelligence to the function of planning loads and stowage of cargo and equipment aboard ocean vessels. ICODES will dramatically reduce the time (from 12 hours to under 30 minutes) and improve the accuracy of the ship stow planning process, enabling the user to concentrate on complex problems associated with port management and vessel loading. ICODES will support rapid deployment missions, planning cargo deployments from multiple seaports of embarkation and debarkation, as well as multiple ships. ICODES will also detail a three dimensional representation of the ship compartments, resolving the height limitations of the current system. Benefits from this system include: replacement of the current autonomous and redundant systems; improved responsiveness to changes and contingencies; ability to direct transfer stow plan files; streamlined and standardized terminal cargo training support; more effective allocation of marine cargo resources; comprehensive report capability; more precise cargo stow plans; and increased productivity. FY 98/99 funds procure the hardware and software necessary to begin fielding to authorized users.</p> <p>US ARMY LOGISTICS INTEGRATION AGENCY (LIA) LOGISTICS AUTOMATION SYSTEM (LAS): LIA's mission is to analyze, evaluate and innovate, providing world class logistics to the soldier in the field. Ongoing initiatives seek to improve Army logistics capabilities as well as to contribute to DOD efforts for improvements in logistics effectiveness, efficiency, and economies. FY 98/99 funds digitize the Army's technical manuals (TMs), effectively providing more accurate and timely access to technical information through electronic means. Funds pay for publication and implementation of an Army Interactive Electronic TM (IETM) plan, identifying the benefits of such a plan and selecting legacy weapon systems for migration to the program. In the end, the Army IETM will be a diagnostic and prognostic tool for battlefield repairmen that provides more accurate diagnosis. Program funding will also create a Logistics Internet link which will provide direct connections to secondary item supply sources, allowing all authorized consumers to make direct purchases, thus reducing order ship time. An Electronic Publication and Regulations site will also be placed on the Internet, eliminating/reducing printing costs and providing electronic staffing and coordination for all regulations, DA Pamphlets, and etc. Furthermore, funding will support development of the Logistics Pipeline Analyzer, which will provide a single, automated tool to measure and analyze the total logistics pipeline (i.e. Acquisition and Production, Repair Cycle Times, and Materiel Returns/Reuse/Disposal) without interfering with logistic operations. Funds will also support the Predictive Push Logistics initiative, which will create a dynamic decision support system that will use real time information on an organization's mission (OPTEMPO), fleet size and age, equipment, and training density to ensure timely support, acquisition, production, and distribution during contingency operations.</p>										

OPA Cost Analysis		A. APPN/ BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				B. WEAPON LOGISTICS AUTOMATION SYSTEMS (BE4166)				C. MANUFACTURER NAME		D. DATE	
		FY 96				FY 97				FY 98		FY 99	
Cost Elements		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	TotalCost \$000	UnitCost \$000	Qty Each	UnitCost \$000
OPA Cost Elements	Transportation Coordinator Automated Command & Control Information System (TCACCS)	2948	VAR	VAR	1030	VAR	VAR	VAR	VAR				
	Worldwide Port Systems (WPS)	1896	45	42	3099	15	206	1012	23	44	1305	29	45
	Air Load Module (ALM)				553	92	6				1668	278	6
	TC AIMS II				5646	VAR	VAR						
	Integrated Computerized Deployment System (ICODES)							1036	10	100	802	8	100
LIA Logistics Automation Systems								4303	VAR	VAR	2325	VAR	VAR
	TOTAL	4844			10328			6351			6100		

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE February 1997	
B. APPROPRIATION / BUDGET ACTIVITY											
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment											
C. P-1 ITEM NOMENCLATURE											
LOGISTICS AUTOMATION SYSTEMS (BE4166)											
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF DELIVERY	QTY	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQD	IF YES W/A	
Transportation Coordinator Automated Command & Control Information System (TCACCIS)	VAR*** Pulsar Data Systems	C/FP C/FP	MTMC MTMC	VAR* VAR*	VAR* VAR*	VAR VAR	VAR VAR	YES YES	NO		
Hardware/Software Upgrade											
FY 96											
FY 97											
Worldwide Port System (WPS)											
WPS Hardware & Software											
FY 96	CFS	C/FP	MTMC	Jul-96	Nov-96	VAR	VAR				
FY 97	CFS	C/FP	MTMC	Jul-97	Nov-97	VAR	VAR	YES	NO		
FY 98	CFS	C/FP	MTMC	Jul-98	Nov-98	VAR	VAR	YES	NO		
FY 99	CFS	C/FP	MTMC	Jul-99	Nov-99	23	44	YES	NO		
Air Load Module (ALM)											
ALM Hardware & Software											
FY 97	Pulsar Data Systems	C/FP	MTMC	Jan-97	Mar-97	92	6	YES	NO		
FY 99	Pulsar Data Systems	C/FP	MTMC	Jan-99	Mar-99	278	6	YES	NO		
TC AIMS - HP9000 Server/Workstations/Laptops											
FY 97	TBS	C/FP	ISSAA	May-97	Aug-97	VAR	VAR	YES	NO		
Integrated Computerized Deployment System (ICODES)											
FY 98	CFS	C/FP	MTMC	Mar-98	May-98	VAR	VAR	YES	NO		
FY 99	CFS	C/FP	MTMC	Mar-99	May-99	VAR	VAR	YES	NO		
LIA Logistics Automation Systems											
FY 98	TBS	C/FP	CECOM	Jun-98	Aug-98	VAR	VAR	YES	NO		
FY 99	TBS	C/FP	CECOM	Jun-99	Aug-99	VAR	VAR	YES	NO		
REMARKS:											
Pulsar Data Systems - Lanham, MD											
CFS - Computer Federal Systems - Richmond, VA											
TMA - Technology Management Analysis - Mclean, VA											
MTMC - Military Traffic Management Command											
VAR* - Multiple contracts awarded/Delivered throughout the year.											
VAR - Unit costs and quantities vary by configuration.											
ISSAA - Information Systems Selection and Acquisition Agency											
VAR*** - Technology Management and Analysis Corp. - Mclean, VA; Informix - Lenexa, KA; Pulsar Data Systems - Lanham, MD; IPI Gramtech - San Antonio, TX; Government Micro Resources - Manassas, VA											

BUDGET ITEM JUSTIFICATION SHEET									
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE							DATE
OTHER PROCUREMENT / Communications and Electronics Equipment		SUSTAINING BASE INFO SVC (SBIS) (BE4200)							February 1997
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	
QUANTITY	0	0	0	0	0	0	0	0	
COST (in millions)	14.5	21.5	0.0	0.0	0.0	0.0	0.0	0.0	

DESCRIPTION: The Sustaining Base Information Services (SBIS) program consists of up to thirteen custom developed applications to be fielded to various Army installations. SBIS applications are designed to operate in an Open Systems Environment (OSE) compliant automated infrastructure maximizing the number of support suppliers while minimizing the total life cycle cost. Funding provides for complete infrastructure solutions to support the applications developed under SBIS, and it procures SBIS servers which are integrated with existing automation assets at each fielded site. SBIS provides required automation support to improve and standardize critical sustaining base business processes. Fielded software has become an integral part of readiness, mobilization and installation management. Developed applications enhance key elements of those support missions and enable consistent, timely data collection and dissemination, allowing better management to key areas of installation budgets, Major Army Command (MACOM) budgets, the Army Safety Program, security clearance status monitoring, and the schoolhouse system.

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				B. WEAPON SUSTAINING BASE INFO SVC (SBIS) (BE4200)				C. MANUFACTURER NAME		D. DATE February 1997	
OPA		FY 96		FY 97		FY 98		FY 99					
Cost Elements		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Infrastructure to include: IBM R/S 6000 ProcServer(SBIS & ITP/ISM) IBM R/S 6000 Data Servers IBM R/S 6000 Application Data Servers Communications Infrastructure		14518	VAR	VAR	21487	VAR	VAR						
TOTAL		14518			21487								

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE
B. APPROPRIATION / BUDGET ACTIVITY										February 1997
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment										
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A
Workstations/Data Servers/Process Data Server COTS software/Associated Comm Infrastructure/ FY 96 FY 97	Lockheed-Martin Federal Lockheed-Martin Federal	C/FP C/FP	ISSAA CAC - WOO	Jan-96 Apr-97	Mar-96 Jun-97	VAR VAR	VAR VAR	YES YES	NO	
REMARKS: Lockheed-Martin Federal Systems - Oswego, NY VAR - Unit costs vary by configuration. Quantities vary to meet specific needs at a variety of functional work centers. ISSAA - Information Systems Selection and Acquisition Agency CAC - WOO - CECOM Acquisition Center - Washington Operating Office										

BUDGET ITEM JUSTIFICATION SHEET										DATE
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE								February 1997
OTHER PROCUREMENT / Communications and Electronics Equipment		JOINT COMPUTR AIDED ACQ & LOG SPT (WA1000)								
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		
QUANTITY	0	0	0	0	0	0	0	0		
COST (in millions)	0.0	22.2	35.2	45.0	34.0	42.1	43.1	44.2		

DESCRIPTION: The Joint Computer-Aided Acquisition and Logistics Support (JCALS) system provides an infrastructure capable of integrating digitized technical data that supports the weapons systems acquisition and logistics life cycle. The system is data driven and provides an automated information systems architecture, independent of application. JCALS will initially meet the Services' goal of automating technical manual processes and functions. The JCALS architecture provides a distributed, open systems environment that makes extensive use of both industry and Government standards. The architecture is designed for flexibility and growth, and is capable of accommodating additional system requirements, technological improvements and new functionality.

At the JCALS sites, hardware and software configurations are dependent on each site's organization and functions, processing needs and role in the overall system. The system provides local and wide area communications processing, distributes, manages, updates and replicates data throughout the system and delivers the applications and functions to the users' workstations. The system architecture includes a central site for user support, system monitoring, life cycle software support, maintenance and troubleshooting.

JUSTIFICATION: FY 98 funds deployment of the JCALS capability to high priority technical manual users at 21 joint Service sites and FY 99 funds 28 sites. The DOD approved site list is extensive, including service inventory control points, depots, installations and schools.

OPA Cost Analysis										A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				B. WEAPON JOINT COMPUTR AIDED ACQ & LOG SPT (WA1000)				C. MANUFACTURER NAME		D. DATE February 1997	
OPA Cost Elements		ID	FY 96			FY 97			FY 98			FY 99									
		CD	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000				
Joint Computer Aided Aquisition and Log Systems (JCALS)																					
Hardware Investment	A				11691		17	VAR	21188	21	VAR	26910	34	VAR			VAR				
Software Investment	A				5339		17	VAR	8754	21	VAR	11352	34	VAR			VAR				
Site Activation	A				5151		17	VAR	5304	21	VAR	6760	34	VAR			VAR				
TOTAL					22181				35246			45022									

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE
B. APPROPRIATION / BUDGET ACTIVITY										
C. P-1 ITEM NOMENCLATURE										
JOINT COMPUTR AIDED ACQ & LOG SPT (WA1000)										
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A
Joint Computer Aided Acquisition and Log Systems (JCALS)										
Hardware Investment										
FY 97	CSC	C/FP	CAC - WOO	Apr-97	Sep-97	17	VAR	YES	NO	
FY 98	CSC	C/FP	CAC - WOO	Dec-97	May-98	21	VAR	YES	NO	
FY 99	CSC	C/FP	CAC - WOO	Dec-98	May-99	28	VAR	YES	NO	
Software Investment										
FY 97	CSC	C/FP	CAC - WOO	Apr-97	Sep-97	17	VAR	YES	NO	
FY 98	CSC	C/FP	CAC - WOO	Dec-97	May-98	21	VAR	YES	NO	
FY 99	CSC	C/FP	CAC - WOO	Dec-98	May-99	28	VAR	YES	NO	
Site Activation										
FY 97	CSC	C/FP	CAC - WOO	Apr-97	Sep-97	17	VAR	YES	NO	
FY 98	CSC	C/FP	CAC - WOO	Dec-97	May-98	21	VAR	YES	NO	
FY 99	CSC	C/FP	CAC - WOO	Dec-98	May-99	28	VAR	YES	NO	
REMARKS: CSC - Computer Systems Corp - Marlton, NJ VAR - Unit costs and quantities vary by configuration. CAC -WOO - CECOM Acquisition Center - Washington Operating Office										

BUDGET ITEM JUSTIFICATION SHEET										DATE
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE								February 1997
OTHER PROCUREMENT / Communications and Electronics Equipment		RESERVE COMPONENT AUTOMATION SYS (RCAS) (BE4167)								
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		
QUANTITY	0	0	0	0	0	0	0	0		
COST (in millions)	80.8	72.5	114.3	110.6	91.5	97.4	95.3	19.9		

DESCRIPTION: The Reserve Component Automation System (RCAS) is an automated information system that will provide the Army the capability to more effectively administer, manage and deploy Army National Guard and Army Reserve forces. The RCAS will link over 10,000 Guard and Reserve units at over 4,000 locations. The RCAS will support daily operational, training, and administrative tasks at all Guard and Reserve echelons, and will provide timely and accurate information to plan and support mobilization. The RCAS is an Acquisition Category 1AM program managed by the Chief, National Guard Bureau. Prior to program restructuring, the RCAS was installed in 2,027 Army National Guard and Army Reserve units in 14 Western states. A Program Executive Officer (PEO) charter was jointly signed by the C,NGB and the Army Acquisition Executive in December 1995. The PEO appointed an Acquisition Corps Colonel as the RCAS Program Manager in January 1996.

JUSTIFICATION: In February 1995 a Special Assessment Team (Red Team) reviewed the RCAS program and recommended a course of action to improve the solution in terms of user satisfaction and executability of the program within existing budgets. In April 1995 a Validation Team was formed to implement the Red Team recommendations. The program was restructured to constrain cost growth, establish a realistic requirements baseline, and to leverage new information management technology. The revised program approach was approved by the RCAS General Officer Steering Committee (GOSC), the OSD MAISRC, and Congress. The restructured RCAS contract was signed in January 1996, and will consist of commercial off-the-shelf (COTS) hardware and office automation software, government off-the-shelf (GOTS) software, and new software applications integrated into an open system, PC-based architecture. On 23 September 1996 a joint OSD and Army MAISRC Overarching Integrated Process Team (OIPT) chaired by OSD (C31 Acquisition) unanimously approved the fielding of the first increment of the RCAS hardware and software. Increment One will provide the Reserve Component with personal computers, network servers, office automation, and a nation-wide infrastructure that will support electronic mail and file transfer. The final increment of RCAS is scheduled to be completed by the end of FY 2002.

OPA Cost Analysis			A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				B. WEAPON RESERVE COMPONENT AUTOMATION SYS (RCAS) (BE4167)				C. MANUFACTURER NAME Boeing Information Services, Vienna, VA		D. DATE February 1997			
OPA			FY 96				FY 97				FY 98		FY 99			
Cost Elements			TotalCost	Qty	UnitCost	TotalCost	TotalCost	Qty	UnitCost	TotalCost	TotalCost	Qty	UnitCost			
			\$000	Each	\$000	\$000	\$000	Each	\$000	\$000	\$000	Each	\$000			
PRODUCTION																
ADP Equipment ADP Software	A	21340	1	21340	21676	21676	1	21676	41770	41770	1	41770	40074	1	40074	
		19857	1	19857	10605	10605	1	10605	20823	20823	1	20823	21803	1	21803	
SUBTOTAL		41197			32281			62593			61877					
FIELDING																
SUSTAINMENT / UPGRADES			16568	1	16568	11269	11269	1	11269	20943	20943	1	20943	17610	1	17610
PROGRAM MANAGEMENT / OPERATIONS			2819	1	2819	3797	3797	1	3797	4066	4066	1	4066	3922	1	3922
SYSTEM ENGINEERING			9054	1	9054	10799	10799	1	10799	11212	11212	1	11212	11641	1	11641
AWARD FEE			8004	1	8004	10073	10073	1	10073	11152	11152	1	11152	10572	1	10572
			3122	1	3122	4279	4279	1	4279	4357	4357	1	4357	4990	1	4990
TOTAL			80764			72498			114323			110612				

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE
B. APPROPRIATION / BUDGET ACTIVITY										February 1997
C. P-1 ITEM NOMENCLATURE										
RESERVE COMPONENT AUTOMATION SYS (RCAS) (BE4167)										
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A
RCAS System										
FY 95	Boeing Info Sys, Vienna, Va	Option	ISSAA	*	Oct-94	1		Yes	No	
FY 96	Boeing Info Sys, Vienna, Va	Option	ISSAA	*	Oct-95	1		Yes	No	
FY 97	Boeing Info Sys, Vienna, Va	Option	CECOM (former ISSAA)	*	Oct-96	1		Yes	No	
FY 98	Boeing Info Sys, Vienna, Va	Option	CECOM (former ISSAA)	*	Oct-97	1		Yes	No	
FY 99	Boeing Info Sys, Vienna, Va	Option	CECOM (former ISSAA)	*	Oct-98	1		Yes	No	

REMARKS: The RCAS is a "turn key" system, and as such, is considered one system. The quantity therefore is one.

Source Selection for the Development and Deployment Phase was completed during the fourth quarter, FY 1991.

* Contract awarded to Boeing Information Services (BIS) in accordance with OMB Circular A-109 on an annual option basis to the original contract awarded in October 1991. A restructured contract agreement was signed with BIS on 31 January 1996.

BUDGET ITEM JUSTIFICATION SHEET										DATE
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE								February 1997
OTHER PROCUREMENT / Communications and Electronics Equipment		AFRTS (B28480)								
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		
QUANTITY	0	0	0	0	0	0	0	0	0	
COST (in millions)	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	

DESCRIPTION: The Army Broadcasting Service (ABS) is the DOD Executive Agent for the Army's Armed Forces Radio and Television Service (AFRTS) operations. AFRTS provides overseas warfighting Commanders-in-Chief (CINCs) with radio and television mass communications during peacetime, emergency, contingency and wartime operations in accordance with DOD Directive 5122.10, and serves DOD personnel overseas with American language news, command information and entertainment programming. Geographical areas served by Army AFRTS facilities are Germany, England, Scotland, Italy, Spain, the Middle East (including the Sinai, Saudi Arabia and Kuwait), Korea, Central and South America, and the Marshall Islands. Four Army radio and television networks, consisting of approximately 360 radio and television facilities, broadcast continuous 24-hour programming to nearly 500,000 soldiers, sailors, airmen, marines, DOD civilians and their families worldwide. AFRTS is the only mass communications available to overseas commanders to communicate time-sensitive emergency health and welfare announcements, command information and news. Overseas wartime operational CINCs consider AFRTS a battlefield support function that is critical in maintaining and enhancing the morale, readiness, and well-being of overseas troops, DOD personnel and their families. Overseas availability of the AFRTS communications service has become increasingly important to disseminate timely information as the Army downsizes and shifts resources in support of contingency, peace keeping and wartime operations such as Desert Shield/Storm and Operations Just Cause, Restore Hope, Provide Promise, Safe Haven, and Joint Endeavor. Congress mandates that AFRTS provide the same type of radio and television service to personnel overseas which is available to American citizens in the United States.

JUSTIFICATION: FY 98/99 funds purchase commercial video switching/control systems and a video server system. Equipment purchases support fixed facilities and full spectrum contingency operations such as Desert Storm, Operation Deny Flight, Operation Support Hope (Rwanda, Uganda, Zaire), PREPO AFLOAT, Joint Task Force Bravo (Honduras), Zagreb, Macedonia and Bosnia to ensure warfighting CINCs have required AFRTS resources to execute wartime and contingency/emergency information needs. In addition to health, safety and quality of life issues, "Observations and Lessons Learned, Operation Desert Storm," validated Army AFRTS as a force multiplier and Battlefield Support Agency. Army AFRTS, through its primary mission of command information, serves as an information conduit for the battlefield commander. The mass communications broadcast mission of AFRTS is not duplicated by the strategic communication mission of the Army or other services and is the only means of direct communication from the President of the United States to US deployed forces. Overseas force reductions, force realignment, post-Conventional Forces Europe (CFE), troop strength reductions in Korea and overseas base closures have been considered and do not impact the equipment required to sustain the basic broadcast capability to remaining forces.

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 2 / Communications and Electronics Equipment	B. WEAPON		AFRTS (BZ8480)		C. MANUFACTURER NAME		D. DATE	
ID	CD	OPA Cost Elements	FY 96		FY 97		FY 98		FY 99	
			TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each
		American Forces Network Europe Replacement Equipment	53	1	53	359	2	180	119	1
		American Forces Korea Network Replacement Equipment	393	VAR	VAR		2	170	340	2
TOTAL			446			359			502	

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE
B. APPROPRIATION / BUDGET ACTIVITY										February 1997
C. P-1 ITEM NOMENCLATURE										
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment										
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY Each	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A
American Forces Network Europe Replacement Equipment	Nautel Maine, Inc	C/FP	TASA	Nov-95	Jan-96	1	53	YES	NO	
FY 96	AVID Technology	C/FP	TASA	Dec-96	Apr-97	2	180	YES	NO	
FY 97	TBS	C/FP	TASA	TBS	TBS	1	119	YES	NO	
FY 98	TBS	C/FP	TASA	TBS	TBS	1	162	YES	NO	
FY 99										
American Forces Korea Network Replacement Equipment	VAR*	C/FP	TASA	VAR	VAR	VAR	VAR	YES	NO	
FY 96	AVID Technology	C/FP	TASA	TBS	TBS	2	170	YES	NO	
FY 98	AVID Technology	C/FP	TASA	TBS	TBS	2	170	YES	NO	
FY 99										

REMARKS: VAR* - Equipment items are grouped into bulk buy contracts, therefore, the number of contacts and the number of items do not correspond. This list of contractors is too voluminous to address each on this form.
T-ASA - Television-Audio Support Activity
Nautel Maine Inc, Bangor, ME
AcroDyne Industries, Blue Bell, PA

BUDGET ITEM JUSTIFICATION SHEET										DATE
APPROPRIATION / BUDGET ACTIVITY										February 1997
OTHER PROCUREMENT / Communications and Electronics Equipment		P-1 ITEM NOMENCLATURE								
		FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	ITEMS LESS THAN \$2.0M (AV) (BK5289)
QUANTITY		0	0	0	0	0	0	0	0	
COST (in millions)	4.1		2.1	2.6	5.7	11.0	11.6	11.9	12.2	
<p>DESCRIPTION: This budget line supports visual information (VI) processes for all MACOMs and HQDA Field Operating Agencies (FOAs). Department of Defense (DOD)/Army authorized VI activities provide audio-visually-based products and services to support Armywide training and readiness, force development, mobilization, health, safety, documentation of diagnostics for medical, historical, and professional information. VI support includes imagery for installation power projection platforms, video productions (especially for Military Occupation Skill (MOS) training and readiness, safety and intelligence), electronic imaging, and photography (including DA official photos). VI equipment acquired with this budget line provides commanders with video, photography, electronic imaging, audio, and other computer generated media which can be integrated to convey real time, two-way information throughout the chain of command.</p> <p>All equipment has been approved for purchase through the Requirements process and included in the Visual Information Systems Program (VISIP). The VISIP Program is the only means for commanders to procure, replace or augment their VI investment systems and equipment. The equipment in the VISIP has been reviewed and prioritized, both by MACOMs, and Headquarters, Department of Army, Director, Information Systems for Command, Control, Communications and Computers (DISC4). These funds are in support of the Army Plan SEC VII, Para J3b(4), "Obtain a family of information systems to meet the needs of all disciplines ... developed in the context of approved information models and architecture." Funds will purchase equipment to support the transition to electronic imaging (away from hazardous chemical processes) and replace equipment past its life cycle for commanders at each post, camp and station, plus HQDA, Office of the Joint Chiefs of Staff, Office of the Secretary of Defense, the Pentagon, other government agencies in the National Capital Region, as well as the U.S. Military Academy, National Defense University CAPSTONE course, Training and Doctrine Command (TRADOC) schools, and the National Guard and Army Reserves training.</p> <p>JUSTIFICATION: FY 98/99 funds provide VI equipment for Army elements to directly support the warfighter. The equipment to be purchased is listed in the associated FY VISIP acquisition sequence. Funds will acquire replacement VI investment equipment/systems to produce training materials and other VI products to support the warfighter. Existing equipment is obsolete, requiring excessive maintenance dollars and long unnecessary "throughput times."</p>										

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				B. WEAPON ITEMS LESS THAN \$2.0M (AV) (BK5289)				C. MANUFACTURER NAME Numerous see 5a.		D. DATE February 1997	
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99					
ID	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Procurement actions consisting of one or more items of Visual Information Equipment. Individual items are listed in the Visual Information Systems Program (VISP) for year indicated. The Army maintains a priority listing.	A	4104	VAR	VAR	2112	VAR	VAR	2624	VAR	VAR	5700	VAR	VAR
		4104			2112			2624			5700		
TOTAL													

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE February 1997	
B. APPROPRIATION / BUDGET ACTIVITY		OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				C. P-1 ITEM NOMENCLATURE ITEMS LESS THAN \$2.0M (AV) (BK5289)					
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST \$000	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A	
Procurement actions consisting of one or more items of Visual Information Equipment. Individual items are listed in the Visual Information Systems Program (VISP) for year indicated. The Army maintains a priority listing. FY 96 FY 97 FY 98 FY 99	VAR* VAR* VAR* VAR*	C/FP C/FP C/FP C/FP	T-ASA T-ASA T-ASA T-ASA		VAR* VAR* VAR* VAR*	VAR VAR VAR VAR	VAR VAR VAR VAR	YES YES YES YES	NO NO NO NO		
REMARKS: *The various items of Visual Information (VI) Equipment are listed in the Visual Information System Program (VISP) for the year indicated. Because some equipment items are grouped into a bulk buy contract, the number of contracts and the number of items do not correspond.											

BUDGET ITEM JUSTIFICATION SHEET							DATE	
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE						
Other Procurement, Army 2 - Communications and Electronics Equipment		CALIBRATION SETS EQUIPMENT (BZ5269)						
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (in millions)	10.9	11.1	*					
<p>DESCRIPTION:</p> <p>Calibration Sets Equipment comprises calibration standards (hardware), accessories, and repair equipment required to perform the Army-wide test, measurement, and diagnostic equipment (TMDE) calibration and repair mission. This equipment provides for accuracy verification of TMDE by maintaining legal traceability to standards established and maintained by the U.S. National Institute of Standards and Technology. The AN/GSM-286 and AN/GSM-287 Calibration Sets and the Reference Calibration Sets are an integral part of the Army calibration system and are used by direct support/general support maintenance units worldwide. This program supports the TMDE required to assure the operability, accuracy, and effectiveness of the Army's weapon systems.</p> <p>JUSTIFICATION:</p> <p>The Calibration Sets Equipment funding provides for replacement of obsolete and worn-out calibration standards and for procurement of state-of-the-art equipment required to support new and technologically advanced weapon systems such as the Multiple Launch Rocket System, Apache, Bradley Fighting Vehicle, and Patriot. The calibration equipment is required to ensure the Army's weapon systems are maintained in the proper state of readiness.</p>								

*NOTE: This item is funded in OPA3 beginning in FY1998.

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO Other Procurement, Army 2 - Communications and Electronics Equipment				B. WEAPON CALIBRATION SETS EQUIPMENT (BZ5269)				C. MANUFACTURER NAME Various				D. DATE February 1997			
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99		FY 96		FY 97		FY 98		FY 99	
ID	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	
		\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	
HARDWARE																	
Pneumatic Pressure Standard	A	711	194	3665													
Scope/Meter (50 Mhz)	A	258	200	1290													
Gage Block Comparator	A	205	1	205000													
Signal Generator Workstation	A	2741	97	28258	2607	92	28337										
Amplifier 5725A	A	1621	172	9424	196	20	9800										
Signal Generator W/S Augmentation	A	1247	97	12856	1183	92	12856										
Holt 250 Exciter	A				338	100	3380										
Pressure Calibration System	A				310	6	51667										
100" Mercury Manometer	A				305	1	305000										
AC Volt Calibrator	A				381	19	20053										
Extremity Dosimetry System	A				400	1	400000										
Instrument Controller	A				1352	265	5102										
Wattmeter RF Amplifier	A				525	15	35000										
Multiple	A	2160	VAR	VAR	1488	VAR	VAR										
OTHER																	
Government Engineering/Support		1850			1850												
Fielding (New Equipment Training)		155			155												
TOTAL		10948			11090												

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)									
B. APPROPRIATION / BUDGET ACTIVITY					DATE				
Other Procurement, Army 2 - Communications and Electronics Equipment					February 1997				
C. P-1 ITEM NOMENCLATURE					CALIBRATION SETS EQUIPMENT				
LINE ITEM / FISCAL YEAR					AWARD DATE	CONTRACTED BY	CONTRACT METHOD AND TYPE	QTY	IF YES W/A
CONTRACTOR AND LOCATION					DATE OF FIRST DELIVERY	UNIT COST \$	SPEC AVAIL NOW	REV REQ'D	
Pneumatic Pressure Standard FY 96					Dec-95	MICOM	C/FP	194	Y
Scope/Meter (50 Mhz) FY 96					Mar-96	MICOM	C/FP	200	Y
Gage Block Comparator FY 96					Mar-96	MICOM	C/FP	1	Y
Signal Generator Workstation FY 96 FY 97					Jan-96 Jan-97	Air Force Air Force	MIPR MIPR	97 92	Y N
Amplifier 5725A FY 96 FY 97					Mar-96 Jan-97	Air Force Air Force	MIPR MIPR	172 20	Y N
Signal Generator W/S Augmentation FY 96 FY 97					Mar-96 Dec-96	MICOM MICOM	SS/FP SS/Option	97 92	Y N
Holt 250 Exciter FY 97					Jan-97	MICOM	SS/FP	100	Y
Pressure Calibration System FY 97					Mar-97	MICOM	C/FP	6	Y
TBS (1)					Nov-97				
REMARKS:					The Calibration Sets Equipment acquisitions are numerous; therefore, only acquisitions totaling \$200,000 or more are identified above. This item is funded in OP A3 beginning in FY 1998.				

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)											
B. APPROPRIATION / BUDGET ACTIVITY			Other Procurement, Army 2 - Communications and Electronics Equipment				C. P-1 ITEM NOMENCLATURE CALIBRATION SETS EQUIPMENT (BZ5269)				DATE February 1997
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY Each	UNIT COST \$	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A	
100" Mercury Manometer FY 97	TBS (2)	C/FP	MICOM	Mar-97	Oct-97	1	305000	Y	N		
AC Volt Calibrator FY 97	Fluke; Everett, WA	C/FP	MICOM	Dec-96	Mar-97	19	20053	Y	N		
Extremity Dosimetry System FY 97	TBS (3)	C/FP	MICOM	Apr-97	Jan-98	1	400000	Y	N		
Instrument Controller FY 97	TBS (4)	C/FP	MICOM	Jun-97	Oct-97	265	5102	Y	N		
Wattmeter RF Amplifier FY 97	TBS (5)	C/FP	MICOM	May-97	Jan-98	15	35000	Y	N		
Multiple FY 96 FY 97	VAR VAR	VAR VAR	VAR VAR	FY96 FY97	VAR VAR	VAR VAR	VAR VAR				
REMARKS: The Calibration Sets Equipment acquisitions are numerous; therefore, only acquisitions totaling \$200,000 or more are identified above. This item is funded in OPA3 beginning in FY 1998.											

FY 98 / 99 BUDGET PRODUCTION SCHEDULE										P-1 ITEM NOMENCLATURE CALIBRATION SETS EQUIPMENT (BZ5269)										DATE February 1997																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
COST ELEMENTS				M F R	FY	S E R V	PROC QTY Each	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 98										Fiscal Year 99																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
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L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J 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R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M 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BUDGET ITEM JUSTIFICATION SHEET							DATE	February 1997	
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE							
Other Procurement, Army 2 - Communications and Electronics Equipment		INTEGRATED FAMILY OF TEST EQUIPMENT (IFTE) (KA4000)							
		FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY									
COST (in millions)		41.3	21.5	*					
<p>DESCRIPTION:</p> <p>The Integrated Family of Test Equipment (IFTE) is the Army's program to provide automatic test equipment capable of supporting multiple weapon systems. The IFTE systems provide electronic fault isolation, test, and repair capabilities at all levels of maintenance, and do it more cost effectively than system-specific testers. The IFTE family consists of three systems: The Base Shop Test Facility for direct and general support, the Contact Test Set for organizational support, and the Electro-Optics Test Facility for electro-optical support. The following weapon systems depend in whole or in part upon IFTE for maintenance support: Abrams, Avenger, All Source Analysis System, Kiowa Warrior, Apache Longbow, Multiple Launch Rocket System, Paladin, Ground-Based Sensor, Joint Tactical Unmanned Aerial Vehicle, Army Tactical Missile System, Enhanced Position Location Reporting System, and the Blackhawk and Chinook helicopters.</p> <p>JUSTIFICATION:</p> <p>IFTE has been designated the Army's standard family of automatic test equipment (one of two Department of Defense standard families), and its use by weapon system developers is mandated by the Army Acquisition Executive. The capability of IFTE to support many different weapon systems at all maintenance levels generates substantial long-term operation and support savings by eliminating the need for more costly system-specific testers and enabling retirement of aging and increasingly unsupportable testers currently in the field. The IFTE provides the capability to support existing weapon systems as well as the even more electronics-intensive systems planned for future fielding.</p>									

*NOTE: This item is funded in OPA3 beginning in FY 1998.

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO Other Procurement, Army 2 - Communications and Electronics Equipment				B. WEAPON INTEGRATED FAMILY OF TEST EQUIPMENT (KA4000)				C. MANUFACTURER NAME Various		D. DATE February 1997	
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99					
ID	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	\$000	Each	\$
Base Shop Test Facility													
HARDWARE *	A	16863	8	2107817	13799	6	2299833						
OTHER		18648			3277								
SUBTOTAL		35511			17076								
Contact Test Set													
HARDWARE	A	1047	80	13088	3415	517	6605						
OTHER		906			993								
SUBTOTAL		1953			4408								
Electro-Optic Equipment													
HARDWARE *	A	3400	2	1700000									
OTHER		459											
SUBTOTAL		3859											
TOTAL		41323			21484								

* P-1 quantities have not been updated to reflect the latest projections.

* P-1 quantities have not been updated to reflect the latest projections.

BUDGET ITEM JUSTIFICATION SHEET							DATE	
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE					February 1997	
Other Procurement, Army 2 - Communications and Electronics Equipment		BASE SHOP TEST FACILITY (K18400)						
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY	6	7						
COST (in millions)	35.5	17.1						
<p>DESCRIPTION:</p> <p>The Base Shop Test Facility (BSTF) satisfies the Army's requirement for general purpose, automatic electronic testing at the direct and general support (DS/GS) levels of maintenance. It automatically identifies faults in electronic circuitry and enables immediate repair in the field through circuit card screening and replacement. The BSTF is fielded to DS/GS companies in division main support battalions, corps and non-divisional DS/GS maintenance companies, and aviation maintenance companies. The BSTF in the field is self-contained, consisting of the tester and associated test program sets mounted in two S-280 shelters, on two five-ton trucks, powered by two 60kW generators. The capabilities of this reconfigurable automatic test equipment can be expanded with minimal development to meet new test requirements. The following weapon systems are supported in whole or in part by the BSTF and its commercial component, which is used for factory and depot level support: Avenger, Kiowa Warrior, Multiple Launch Rocket System, Paladin, TOW, and Dragon.</p> <p>JUSTIFICATION:</p> <p>The BSTF is an Army standard general-purpose tester and is required by Army Acquisition Executive policy to be used in support of weapon systems currently being developed. The BSTF is also facilitating the retirement of older, less reliable testers whose operating costs are becoming prohibitive. It will assume the workloads of and replace the Land Combat Support System, the Electronic Quality Assurance Test Equipment, and the Test Support System with substantial annual operation and support cost savings.</p>								
<p>NOTE: This item is funded in OPA3 beginning in FY 1998.</p>								

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO Other Procurement, Army 2 - Communications and Electronics Equipment		B. WEAPON BASE SHOP TEST FACILITY (K18400)		C. MANUFACTURER NAME Northrop Grumman; Beltsville, MD		D. DATE February 1997	
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99	
ID	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty
		\$000	Each	\$	\$000	Each	\$	\$000	Each
HARDWARE									
Base Shop Test Facility *		16863	8	2107817	13799	6	2299833		
OTHER									
Government Furnished Equipment		1045			650				
Test Program Sets		470							
Support Equipment		246							
Engineering Changes/Retrofit Kits		8028							
Acceptance Testing		30			31				
Interim Contractor Support		1092							
Depot Support		918			300				
Fielding		339			100				
Production Engineering		980			820				
Software Engineering/Support		1009			400				
Configuration Management		359			200				
Quality Assurance		105			121				
ILS Products/Support		2709			316				
Contractual Engineering/Technical Services		1318			339				
TOTAL		35511			17076				

P-1 quantity has not been updated to reflect the latest projection.

* P-1 quantity has not been updated to reflect the latest projection.

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE
B. APPROPRIATION / BUDGET ACTIVITY										February 1997
Other Procurement, Army 2 - Communications and Electronics Equipment										
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY Each	UNIT COST \$	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A
Base Shop Test Facility FY 96 FY 96 FY 97	Northrop Grumman;Bethpage,NY	SS/FP	MICOM	Apr-96	Oct-97	7	2107817	Y		
	Northrop Grumman;Bethpage,NY	SS/Option	MICOM	Jun-96	May-98	1	2107817	Y		
	Northrop Grumman;Bethpage,NY	SS/Option	MICOM	Nov-96	Jun-98	6	2299833	Y	N	
REMARKS: This item is funded in OPA3 beginning in FY 1998.										

BUDGET ITEM JUSTIFICATION SHEET										DATE	February 1997
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE									
Other Procurement, Army 2 - Communications and Electronics Equipment		CONTACT TEST SET (K51600)									
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003			
QUANTITY	80	517									
COST (in millions)	2.0	4.4									
<p>DESCRIPTION:</p> <p>The Contact Test Set (CTS) is a lightweight, ruggedized portable tester. It is used at all levels of maintenance to automatically diagnose weapon system operations, both electronic and automotive, on line and to identify faulty components for immediate replacement at the organizational level. Because it is a portable automatic tester with all the inherent computer capabilities and is used by many different maintenance specialties, the CTS is the Army's primary platform for paperless interactive and electronic technical manuals and for downloading mission-critical software into weapon system on-board computer processors. The CTS is in wide use throughout the Army's ground combat and combat service support vehicle fleets as well as in the Army Aviation fleet of aircraft. The follow-on version of the CTS is the CTS (Soldier Portable On-System Repair Tool), CTS(SPORT).</p> <p>JUSTIFICATION:</p> <p>The CTS/CTS(SPORT) is the Army's standard on-system tester and is an essential maintenance tool in the support plans for the Army's ground vehicle and aviation fleets.</p>											
<p>NOTE: This item is funded in OPA3 beginning in FY 1998.</p>											

OPA Cost Analysis		A. APPN/ BUDGET ACTIVITY TITLE/NO Other Procurement, Army 2 - Communications and Electronics Equipment				B. WEAPON CONTACT TEST SET (K51600)				C. MANUFACTURER NAME Millope Corp; Hope Hull, AL				D. DATE February 1997	
OPA Cost Elements		FY 96			FY 97			FY 98			FY 99				
ID	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost		
		\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	\$000	Each	\$		
HARDWARE															
Contact Test Set	A	1047	80	13088	3415	517	6605								
OTHER															
Fielding															
Production Engineering		398			10										
Software Engineering/Support		287			517										
Accessories		57			386										
ILS Products/Support		164			80										
TOTAL		1953			4408										

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE
B. APPROPRIATION / BUDGET ACTIVITY										February 1997
Other Procurement, Army 2 - Communications and Electronics Equipment										
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY Each	UNIT COST \$	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A
Contact Test Set FY 96 FY 97	Miltope Corp; Hope Hull, AL Miltope Corp; Hope Hull, AL	C/FP C/Option	MICOM MICOM	Jun-96 Dec-96	Jun-97 Sep-97	80 517	13088 6605	Y Y	N N	
REMARKS: Unit price for FY 1996 includes "first article" costs. Date of first delivery on the FY 1996 award was delayed by a protest of the contract award. Protest was resolved in September 1996. This item is funded in OPA3 beginning in FY 1998.										

BUDGET ITEM JUSTIFICATION SHEET							DATE	February 1997
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE						
Other Procurement, Army 2 - Communications and Electronics Equipment		ELECTRO-OPTIC EQUIPMENT (KA4100)						
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (in millions)	3.9							
<p>DESCRIPTION:</p> <p>The Integrated Family of Test Equipment (IFTE) Electro-Optics Test Facility (EOTF) will satisfy test requirements for forward-looking infrared systems, thermal imaging devices, laser designators/range finders, television cameras and display systems, direct view optics systems, and trackers. The EOTF will exploit Army and Department of Defense (DOD) investments by integrating components from the IFTE Base Shop Test Facility and the Navy's standard electro-optics (EO) tester within a commercial open architecture for electronics. The IFTE EO program is in concert with Army and DOD policies on general-purpose test equipment. This equipment will support Kiowa Warrior, Apache Longbow, and Ground TOW and will be capable of replacing aging EO test equipment such as the Electronic Equipment Test Facility currently supporting other Army systems in the field when it becomes cost effective to do so.</p> <p>JUSTIFICATION:</p> <p>The IFTE EOTF is the Army standard EO automatic test equipment and is capable of supporting multiple weapon systems. It will produce significant operations and support cost savings over use of system-specific testers.</p>								
<p>NOTE: This item is funded in OPA3 beginning in FY 1998.</p>								

OPA Cost Analysis		A. APPN/BUDGET ACTIVITY TITLE/NO Other Procurement, Army 2 - Communications and Electronics Equipment		B. WEAPON ELECTRO-OPTIC EQUIPMENT (KA4100)		C. MANUFACTURER NAME Northrop Grumman; Bethpage, NY		D. DATE February 1997	
OPA Cost Elements	ID CD	FY 96		FY 97		FY 98		FY 99	
		TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each
HARDWARE									
Electro-Optics Test Facility *	A	3400	2	1700000					
OTHER									
Production Engineering		357							
Quality Assurance		75							
Contractual Engineering/Technical Services		27							
TOTAL		3859							
* P-1 quantity has not been updated to reflect the latest projection.									

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										DATE	February 1997
B. APPROPRIATION / BUDGET ACTIVITY		Other Procurement, Army 2 - Communications and Electronics Equipment				C. P-1 ITEM NOMENCLATURE ELECTRO-OPTIC EQUIPMENT (KA4100)					
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY Each	UNIT COST \$	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A	
Electro-Optics Test Facility FY 96	Northrop Grumman;Bethpage,NY	SS/FP	MICOM	Jan-97	Apr-98	2	1700000	Y			
REMARKS: This item is funded in OPA3 beginning in FY 1998.											

BUDGET ITEM JUSTIFICATION SHEET										DATE	February 1997
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE									
Other Procurement, Army 2 - Communications and Electronics Equipment		TMDE MODERNIZATION (TMOD) (BZ5270)									
		FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		
QUANTITY											
COST (in millions)	9.2		8.2	*							
<p>DESCRIPTION:</p> <p>The objectives of the Army Test, Measurement, and Diagnostic Equipment (TMDE) Modernization (TMOD) program are to improve the materiel readiness of Army weapon systems, reduce TMDE proliferation and obsolescence, and reduce TMDE support costs. These objectives are accomplished through acquisition of state-of-the-art test equipment to provide new measurement capabilities and replace the existing Army inventory of obsolete general purpose test equipment at the direct and general support levels. The TMOD program supports a wide variety of communications and electronics systems, and purchases test equipment that is essential to the continued support of the Abrams tank; Bradley Fighting Vehicle; Apache helicopter; Patriot; Tube-launched, Optically-tracked, Wire-guided (TOW) missile system; Tactical Fire Direction System; Firefinder; Mobile Subscriber Equipment; Single-Channel Ground and Airborne Radio System; and other major weapons and support systems. The TMOD procurements are primarily commercial items which have a significant impact on the readiness, power projection, safety, and training operations of active Army, Army Reserve, and National Guard units.</p> <p>JUSTIFICATION:</p> <p>The TMOD program procures general purpose TMDE to support Army weapons and support systems across all commodities. It has produced significant savings in TMDE acquisitions through centralized, economical procurements. The TMOD program also reduces the Army's operating and support costs by minimizing proliferation of TMDE makes and models and by replacing obsolete, unsupportable equipment.</p>											
<p>*NOTE: This item is funded in OPA3 beginning in FY 1998.</p>											

OPA Cost Analysis		A. APPN / BUDGET ACTIVITY TITLE/NO Other Procurement, Army 2 - Communications and Electronics Equipment				B. WEAPON TMDE MODERNIZATION (TMOD) (BZ5270)				C. MANUFACTURER NAME Various		D. DATE February 1997			
Cost Elements	ID CD	FY 96		UnitCost \$	TotalCost \$000	FY 97		UnitCost \$	TotalCost \$000	FY 98		UnitCost \$	TotalCost \$000	FY 99	
		Qty Each	TotalCost \$000			Qty Each	TotalCost \$000			Qty Each	TotalCost \$000			Qty Each	TotalCost \$000
HARDWARE															
AN/USM-459B	A	213	180	1184											
AN/GTM-12	A	2920	485	6021											
TS-4463(OP	A	4284	138	31040	4193	132	31763								
SG-1207A	A				1883	250	7533								
OTHER															
Maintenance/Calibration Accessories		83			107										
Publications/Technical Data		201			300										
Government Engineering/Support		1234			1551										
Technical Assistance Services		33			10										
Interim Contractor Support					10										
Fielding (Total Package Fielding)		125			100										
Fielding (New Equipment Training)		80			75										
TOTAL		9173			8229										

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)												DATE	February 1997		
B. APPROPRIATION / BUDGET ACTIVITY												C. P-1 ITEM NOMENCLATURE TMDE MODERNIZATION (TMOD) (BZ5270)			
Other Procurement, Army 2 - Communications and Electronics Equipment															
LINE ITEM / FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY Each	UNIT COST \$	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES W/A					
AN/USM-459B FY 96	Hewlett Packard; Santa Clara, CA	C/Option	MICOM	Feb-96	Apr-97	180	1184	Y							
AN/GTM-12 FY 96	ABC Digital Elect; Hillsdale, NJ	C/Option	MICOM	Jan-96	Sep-97	485	6021	Y							
TS-4463(P) FY 96 *	Druck, Inc; New Fairfield, CT	SS/Option	MICOM	Jan-96	Jun-97	138	31040	Y							
FY 97	Druck, Inc; New Fairfield, CT	SS/Option	MICOM	Nov-96	Jan-98	120	31763	Y	N						
FY 97	Druck, Inc; New Fairfield, CT	SS/Option	MICOM	Jun-97	Jul-98	12	31763	Y	N						
SG-1207A FY 97	TBS	C/FP	MICOM	Mar-97	Nov-98	250	7533	Y	N						
REMARKS: * Contract for 118 units awarded in January 1996; contract for remaining 20 units awarded in April 1996. This item is funded in OPA3 beginning in FY 1998.															

FY 98 / 99 BUDGET PRODUCTION SCHEDULE										P-1 ITEM NOMENCLATURE										TMDE MODERNIZATION (TMOD) (BZ5270)										DATE										February 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BUDGET ITEM JUSTIFICATION SHEET										DATE
APPROPRIATION / BUDGET ACTIVITY										February 1997
OTHER PROCUREMENT / Communications and Electronics Equipment										
P-1 ITEM NOMENCLATURE										PRODUCTION BASE SUPPORT (C-E) (BF5400)
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		
QUANTITY	0	0	0	0	0	0	0	0		0
COST (in millions)	1.0	0.7	0.4	0.4	0.4	0.4	0.4	0.4		0.5
<p>DESCRIPTION: This program provides funding to establish, modernize, expand or replace Army-owned industrial facilities used in production and production testing of communication and electronic materiel and above routine maintenance of government-owned equipment used in the manufacture of common modules. By consolidating industrial operations it provides a working environment with improved health and safety factors.</p> <p>JUSTIFICATION: FY98 funding is required for replacement of equipment and instrumentation used in production testing at Electronic Proving Ground (EPG) and for contractor facilities involved in production of common modules. The FY99 funding is required for replacement of equipment and instrumentation used in production testing at EPG.</p> <p>A summary project listing is attached.</p>										

Production Support and Facilities Projects		DATE	
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE	
OTHER PROCUREMENT / Communications and Electronics Equipment		PRODUCTION BASE SUPPORT (C-E) (BF5400)	
PROJECT NO.	TYPE NAME / LOCATION	FY 1996	FY 1997
09X5065	Electronic Proving Ground, TECOM Provides replacement and initial purchase of equipment and instrumentation used for production testing of ground communications, electronic warfare, intelligence and electro-optical systems.	0.600	0.596
29X9281	Production of Common Modules, CECOM Provides above routine maintenance of Government-owned equipment used in the manufacture of Common Modules, M1, M60A Tanks, M2/M3 vehicles, AAH and AHIP.	0.078	0.090
95X0500	Maintenance of Facilities for Tobyhanna Army Depot Provides enhancement of the industrial wastewater pretreatment capabilities which will enable the depot to better achieve its HAZMIN goals. It will also provide a working environment with improved health and safety factors by consolidating industrial operations that are scattered throughout the depot into a centralized location.	0.073	0.089
	HAZARDOUS MINIMIZATION PROJECT Office Secretary of Army	0.200	0.412